



BIBLIOTECA NAZ
Vittorio Emanuele III

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HISTORIA
COELESTIS

BRITANNICA,

Tribus Voluminibus contenta.

VOLUMEN TERTIUM.





HISTORIÆ COELESTIS BRITANNICÆ

VOLUMEN TERTIUM.

Complectens

PRÆFATIONEM spatiosam (five in Stellarum
Fixarum Catalogum PROLEGOMENA) quæ brevem
ASTRONOMIÆ *Historiam* præbet, atque Descrip-
tionem *Observationum* peractarum, & *Organorum*
adhibitorum tum a pristinis *Astronomis*, tum

IN OBSERVATORIO Regio GRENOVICENSI.

Deinceps

FIXARUM *Catalogum* a *Ptolemæo*, *Uleg Beig*, *Tychone*
Brabao, *Gulielmo Hæffia Landtgravio*, ac *Hevelio* constructum.

Demum

Novum ac amplissimum CATALOGUM, *Reclarum Ad-*
scensionum, *Distantiarum a Polo*, *Longitudinum*, *Latitudinum*, &
Stellarum *Fixarum Magnitudinum*: una cum *Variationibus*
Reclarum Adscensionum, & *Polarium Distantiarum*, dum suas
mutant *Longitudines* uno Gradu.

Quibus adnexus est

FIXARUM quarundam *Australium Catalogus*, in nostro *Hemisphærio*
non adspectabilem.

Denique

TABULÆ amplissimæ ad inveniendas FIXARUM, & PLANETARUM
Longitudines, & *Latitudines* per *Inspectionem*, *Datis*, duntaxat,
earum *Reclis Adscensionibus*, ac *Distantiis a Polo*.

A JOANNE FLAMSTEEDIO, A. R.

LONDINI: Typis H. MEERE. MDCCXXV.





STELLARUM
 INERRANTIUM
CATALOGUS BRITANNICUS,
 Ad Annum Christi Completum, 1689.
 Ab Observationibus GRENOVICI in OBSERVATORIO Regio habitis.
 Assiduis Vigilijs, Cura, & Studio
JOHANNIS FLAMSTEEDII, Astronom. Reg.
 Deductus & Supputatus.

In Constellatione ARIETIS.													
ORDO	STELLARUM		Bayer Not.	Ascensio		Distantia		Longitudo.		Latitudo.		Varia, Varia.	
	Prosp.	Transp.		Recl.	Recl.	à Polo B.	à Polo B.	S	O	P	N	A	Recl. d. p.
				0	1	0	1	5	0	1	0	1	1
				20	46	6	17	26	58	25	11	4	58
				21	25	45	71	26	48	15	9	1	26
				22	26	15	74	26	36	18	5	57	3
				22	51	15	74	26	49	4	5	23	59
				24	8	30	72	28	51	0	7	8	58
				24	23	30	70	29	37	59	8	28	16
				24	39	45	67	28	0	54	10	57	12
				25	7	07	43	29	10	37	5	26	12
				25	11	06	56	29	12	15	10	47	47
				26	32	3	65	3	26	14	12	31	52
				27	19	30	65	4	2	12	12	4	2
				27	19	30	68	2	55	8	9	13	29
				27	26	30	68	3	19	18	9	57	12
				27	57	30	65	4	40	46	12	5	32
				28	22	30	71	2	43	49	5	56	58
				28	24	45	65	5	4	35	11	57	0
				28	52	30	70	3	46	55	7	22	45
				28	58	45	71	3	25	44	8	45	58

CATALOGUS BRITANNICUS.

3

In Constellatione TAURI.

ORDO	T. h.	P. m.	S T E L L A R U M Denominatio.	Ascensio Recl.	Distantia à Polo B.	Longitudo.	Latitudo.	Varia. Asc. R.	Varia. D. d. p.	Magnitudo.
	2	2	hanc (3 ^{ma}) sequens	48 16 10	63 53 30	821 32 38	2 59 57 B	61 46 6	5	6
	1	1	Borea, de quatuor in Sectione	48 22 10	79 45 45	18 44 53	7 28 29 A	58 16 3	6	6
			parvula sequens quatuor in Sect.	48 27 0	78 9 45	19 15 18	5 57 13 A	58 41 26	0	5
	42			48 57 40	81 42 35	18 47 41	9 30 27 A	57 30 15	52	6
				49 2 0	66 36 40	22 50 12	5 24 0 B	62 43 15	50	6
				49 22 30	71 50 30	21 46 50	0 5 20 A	60 54 15	45	6
Inf.	1		Sub Pede & Scapula dextra	49 41 40	67 51 5	23 6 10	3 41 37 B	52 21 15	36	6
				50 16 30	90 38 15	17 38 38	18 27 41 A	54 42 15	24	5
				50 34 40	65 42 45	24 26 24	5 32 51 A	59 36 14	23	6
				50 56 30	87 59 15	19 3 8	16 4 57 A	55 46 15	15	6
				51 7 20	71 19 40	23 30 49	0 0 50 A	61 13 15	10	6
				51 29 0	71 21 0	23 50 29	0 7 15 A	61 17 15	4	6
				51 37 10	68 1 55	24 47 9	3 3 43 B	62 27 15	1	6
				51 37 30	66 43 10	25 7 05	4 19 25 B	62 58 14	59	7
	30		Occidentalis lucidior	51 38 40	66 54 5	25 5 21	4 9 5 B	62 53 14	58	5
				51 41 40	66 10 25	25 18 52	4 50 42 P	63 11 14	59	7
				51 43 10	66 32 25	25 14 42	4 29 2 B	63 4 14	57	5
				51 52 30	66 32 15	25 21 31	4 21 25 B	62 6 14	56	6
			PLEIADUM	51 53 30	66 27 25	25 25 16	4 31 33 B	63 7 4	54	6
	30	31	Infima & Occidentali prox.	51 55 30	66 28 45	25 26 40	4 29 49 B	63 6 14	54	7
				52 0 30	67 3 45	25 22 30	3 54 47 B	62 54 14	52	5
				52 15 30	66 53 10	25 38 32	4 1 39 B	62 56 14	47	7
	31	32	Media & Lucida Pleiadum	52 17 30	66 53 45	25 40 8	4 0 37 B	62 58 14	48	3
				52 39 10	67 8 10	25 56 0	3 41 45 B	62 56 14	39	7
	32	33	est in Cuspida ad Ortum	52 42 30	66 56 15	26 1 52	3 52 37 B	62 55 14	38	6
				52 42 40	66 51 5	26 3 19	3 57 34 B	63 2 14	40	7
	34			52 18 30	84 57 25	21 13 6	12 30 6 A	56 47 14	46	6
	5	5	In dextri Humeri Scapula	52 49 10	79 51 0	23 0 15	8 40 36 A	58 23 4	36	5
				53 52 30	84 26 5	22 54 17	13 22 57 A	56 51 14	15	6
				54 39 10	68 27 25	27 25 21	1 58 22 B	62 36 13	59	6
				54 41 0	67 46 5	27 36 33	2 38 20 B	62 51 14	0	7
	6	6	In Pectore	55 47 30	70 25 5	28 0 57	0 10 38 A	61 51 13	39	7
				55 52 40	73 25 35	26 17 31	7 59 57 A	59 2 13	38	4
				56 28 10	66 47 10	29 26 17	3 13 26 B	63 20 13	23	7
	8	8	In Suffragine dextra	56 36 40	68 48 30	29 7 19	1 13 20 B	62 40 13	20	5
				56 40 40	84 54 45	25 25 08	14 29 50 A	56 46 13	18	4
				56 46 0	68 52 0	29 15 0	1 8 1 B	62 38 13	17	6
				56 51 0	85 27 30	25 37 51	15 4 2 A	56 36 13	14	7
	43		Inter Binas præcedentes in	56 54 40	63 17 5	II 0 36	10 6 33~ 7 B	65 1 13	18	6
			Quadrilatero Cervicis							
	27	27	Borea præcedentis lateris	56 57 40	61 52 55	0 57 25	7 54 38 B	65 39 13	13	5
			Quadrilateri in Cervicæ							
	24		In Collo duarum parvularum præcedens,	57 47 40	71 14 50	8 29 40	52 1 23 58 A	61 52 12	57	6
			Australis præcedentis lateris							
	26	26	Quadrilateri in Cervicæ	58 0 0	64 22 25	II 1 19	32 5 16 41 B	64 39 12	52	6
				58 43 30	85 19 45	8 27 32	58 15 21 10 A	56 39 12	36	7
				59 13 30	82 7 10	28 32 5	13 17 55 A	57 28 12	25	7
				59 17 10	81 34 5	8 55 38	11 47 39 A	58 2 12	24	7
				59 33 10	75 25 35	II 0 27	43 5 50 11 A	60 20 12	19	7
				59 40 30	81 55 25	8 29 14	12 12 13 17 A	57 52 12	15	4
	7	7	In dextro Genu							
	25	25	Quæ duarum parvularum in Collo sequens	59 47 0	70 13 45	II 1 43	40 0 47 26 A	62 24 12	16	6
				60 2 0	69 13 25	2 9 33	0 8 53 B	62 47 12	7	7

STELLARUM INERRANTIUM.

In Constellatione TAURI											
ORDO		STELLARUM Denominatio.	Ascensio Recta	Distantia à Polo B.	Longitudo.	Latitudo.	Varia, Varia, Asc. R. D. à p.	Magnitudo			
Part.	Tab.								h	m	s
29	29	Que Boreæ sequentis lateris Quadrilateri in Cervicæ.	60 18 06 32 25 15 60 18 10 69 39 5	15 15 15	II 3 32 59 2 19 18	5 46 12 B 0 19 23 A	65 18 12 3 62 32 12 2	3 5 7			
11	11	De quinque in facie dictis Sueptæ est in Naribus	60 32 40 75 9 55 60 32 45 74 7 55 60 35 10 69 10 55 60 37 40 76 45 0 60 45 10 75 41 45	9 55 7 55 10 55 45 0 41 45	1 27 34 1 39 52 2 42 21 1 13 31 1 32 12	5 46 22 A 4 45 25 A 0 15 0 B 7 20 32 A 6 19 57 A	60 36 11 57 3 60 55 11 57 7 62 54 11 57 7 59 52 11 56 6 60 17 11 54 7	3 7 7 6 7			
28	28	Australis sequentis lateris Quadrilateri in Cervicæ.	60 56 30 65 9 0 61 13 00 76 41 30	9 0 41 30	3 46 56 1 28 52	3 58 41 B 7 22 0 A	64 36 11 48 5 59 57 11 48 7	5 7			
12	12	Inter illam in Naribus (γ) & Oculum Bor.	61 16 10 73 13 45 61 20 45 66 27 45 61 25 07 59 0 61 34 20 73 19 5	13 45 27 45 59 0 19 5	2 31 27 3 53 21 2 31 24 2 47 13	4 0 34 A 2 37 6 B 4 44 58 A 4 9 4 A	61 12 11 38 4 64 6 11 38 7 61 11 11 39 6 61 16 11 35 4	4 7 6 3			
23	23	Duarum propinquarum in Aure Boreæ, Austrina	61 44 10 68 27 35 61 44 40 81 18 15 61 45 06 83 10 61 54 07 49 20	27 35 18 15 33 10 49 20	3 51 53 1 24 57 3 31 37 3 11 42	0 35 21 B 1 21 A 0 29 46 B 3 43 27 A	63 15 11 29 5 58 14 11 29 5 63 13 11 31 5 61 30 11 29 6	5 5 5 6			
22	22	Duarum propinquarum in Aure boreæ, Borealis	61 57 10 67 56 0 61 59 10 74 48 55 62 11 30 75 7 55 62 12 06 74 44 55	56 0 48 55 7 55 44 55	4 9 42 2 54 1 3 2 10 4 25 18	1 4 6 B 5 41 50 A 6 24 A 1 12 36 B	63 29 11 25 5 60 45 11 24 7 60 36 11 21 7 63 26 11 20 6	5 7 7 6			
37	37	Precedens trium, infra Sueptæ.	62 16 40 76 2 5	2 5	2 56 57	6 56 53 A	60 14 11 17 5	5			
15	15	In Oculo Boreæ	62 38 02 32 45	32 45	4 7 11	2 35 53 A	62 3 11 14 3	4			
13	13	Inter 11 ^m (γ) & Austrina num Oculum In sinistro Genu	62 41 30 74 22 45 62 42 40 75 59 35 62 43 10 74 46 25 62 44 40 74 51 55 62 52 07 74 41 5 63 7 10 75 4 30	22 45 59 35 46 25 51 55 41 5 4 30	3 59 12 3 22 25 3 26 24 3 56 51 3 12 31 3 46 0	5 23 43 A 6 59 1 A 5 47 16 A 5 52 55 A 8 40 32 A 6 9 18 A	60 54 11 9 7 60 16 11 10 7 60 45 11 9 5 60 44 11 9 5 59 37 11 5 60 42 10 58 7	7 7 5 5 5 7			
38	38	Media trium infra Sueptæ Splendida in Austrino Ocu- lo Pellicium, Aldebaran	63 23 20 75 36 25 63 32 30 74 51 30 64 4 07 55 15	36 25 51 30 15	4 5 43 4 22 35 4 47 7	6 43 28 A 6 0 53 A 5 5 6 A	60 28 10 56 7 60 46 10 52 7 60 26 10 41 5	7 7 5			
14	14	In sinistro Genu, Ultima trium infra Sueptæ	64 32 20 74 9 40 64 39 30 80 31 15	9 40 31 15	5 27 4 27 10	5 29 49 A 11 46 45 A	61 7 10 28 1 58 37 10 25 5	1 5			
9	9	In sinistro Genu, Ultima trium infra Sueptæ	65 6 07 4 38 5 65 12 30 78 9 15 65 22 07 74 51 40	38 5 9 15 40	5 54 15 5 24 20 6 7 14	6 3 30 A 9 32 32 A 6 19 19 A	60 57 10 16 7 59 33 10 12 5 60 51 10 12 6	7 5 6			
9	9	In sinistro Genu In Educatione Cornu Borei	65 23 30 74 44 35 65 41 40 78 27 25 65 55 10 67 40 50 66 20 10 66 32 30 68 0 15 74 35 35	44 35 27 25 50 32 30 35 35	6 9 52 5 49 58 7 49 20 8 23 8 8 41 27	6 12 35 A 9 55 14 A 0 40 22 B 1 44 11 B 6 28 0 A	60 55 10 19 6 59 26 10 2 6 62 54 9 58 5 64 25 9 49 6 61 4 9 8 6	6 5 5 6 6			
20	20	In Educatione Cornu Austri- ni, & in Aure	68 19 07 1 43 55	43 55	II 9 24 58	3 40 35 A	62 20 9 3 64	64			

In Constellatione TAURI.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Vari. Afc. R.	Vari. Da. P.	Magnitudo
Posit.	Trih.	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
16	16	69 48 30	65 28 35	11 47 58	2 19 3 B	65 12	8 28	6
		69 55 45	66 57 5	11 35 24	0 50 29	64 31	8 26	6
		70 2 074 9 55		10 41 58	6 19 6 A	61 23	8 2	6
Inf. 2	Trium supra Australe Cornu præcedens	70 29 50	74 26 20	11 6 28	6 39 0	61 16	8 12	6
		71 9 30	68 54 5	12 27 36	1 14 34	63 42	7 56	4
17	Duarum in Cornu Austrino Australis	72 4 48	65 48 55	13 41 27	1 42 42 B	65 2	7 36	6
		72 17 30	71 49 0	13 9 18	4 16 8 A	62 30	7 29	6
18	Borealiior { 1 ad 2 ad	72 21 30	68 45 10	12 35 20	1 14 6	63 50	7 29	6
		72 22 40	70 2 30	12 26 55	2 30 59	63 17	7 26	6
		72 29 30	70 35 25	12 38 52	3 5 34	62 3	7 20	6
Inf. 3	Media Trium supra Australe Cornu	74 13 10	68 6 55	15 22 54	0 49 4	64 1	6 44	7
		75 10 40	68 16 25	16 14 58	1 3 2	64 14		6
		76 25 40	73 38 35	16 54 6	6 30 25	61 50	5 48	7
		76 35 0	72 56 30	17 7 0	5 49 12	62 7	5 45	6
21	21	76 40 0	61 42 5	18 12 56	5 21 24 B	67 29	5 44	7
Inf. 4	In extremitate Cornu Borei	77 2 40	73 37 45	17 29 44	6 33 2 A	61 51	5 35	6
		77 15 40	68 22 35	18 10 6	1 20 12	64 14	5 20	5
Inf. 4	Sequens Trium dictarum supra Cornu Austrinum	77 16 10	72 21 20	17 49 31	5 18 4	62 24	5 30	7
		77 28 20	74 25 40	17 50 11	7 22 0	61 27	5 24	6
		77 30 40	73 4 0	17 59 37	6 1 45	62 7	5 23	7
		77 33 10	65 9 0	18 42 56	1 51 14 B	65 48	5 24	6
		78 30 40	71 41 5	19 3 45	4 43 55 A	62 44	5 7	7
Inf. 7	De quinque infra Cornu Boreum præcedens	78 50 30	71 43 55	19 22 21	4 48 10	62 45	4 52	7
		79 8 0	66 12 55	20 3 55	0 40 32 B	65 21	4 42	6
		79 46 0	73 12 25	20 8 48	6 20 26 A	62 7	4 28	7
19	19	79 47 10	69 5 40	20 27 28	2 14 21	64 0	4 28	3
		80 3 0	66 57 25	20 51 3	0 7 26	65 0	4 22	6
		80 7 40	64 19 55	21 6 7	2 29 22 B	66 20	4 20	3
Inf. 5	Duarum infra Cornu Austrinum Borea	80 51 0	73 40 45	21 9 28	6 52 43 A	61 57	4 1	6
		81 10 0	71 12 20	21 36 54	4 25 54	62 3	3 55	6
Inf. 6	Austrina	81 44 15	74 5 45	21 59 23	7 20 57	61 45	3 38	6
		82 13 40	74 21 15	22 27 1	7 38 1	61 40	3 26	6
		82 20 10	72 26 5	22 39 22	5 43 23	62 33	3 25	6
Inf. 9	De quinq. inf. Cornu Boreum 3 ^a	82 23 30	75 40 30	22 32 16	8 57 39	61 0	3 22	6
		82 29 40	65 35 10	23 10 3	1 6 31 B	65 45	3 21	4
		82 32 0	67 15 55	22 38 44	9 23 28 A	60 50	3 18	6
Inf. 10	Reliquarum duarum Borealiior, h. e. Quarta	83 1 30	77 39 55	23 4 3	10 48 50	60 18	3 7	6
		83 12 30	75 50 5	23 19 42	9 9 37	61 0	3 2	6
		83 27 0	62 30 45	24 10 37	4 8 15 B	67 23	2 57	5
		83 40 0	55 57 15	23 46 29	9 18 2 A	60 56	2 51	5
		82 41 0	67 10 25	22 46 54	9 31 12	60 49	2 52	6
Inf. 11	24 Reliquarum 2 ^{ta} Australior	84 40 40	64 8 15	25 12 28	2 28 5 B	66 35	2 27	6
		85 25 0	67 10 5	25 46 35	0 35 3 A	65 4	2 11	6
		85 44 30	67 39 15	26 3 40	1 4 43	64 51	2 1	6

In Constellatione GEMINORUM.

ORDO	STELLARUM Denominatio.	Recta Asc.	Distans a Polo B.	Longitudo	Latitudo	Varia. Asc. R.	Varia. Decl. P.	Magnitudo
Inf.	Sup.	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12
13	Quæ præcedit ad summum Pedem	86 19 30	66 45 55	26 37 24	0 12 19 A	65 17	1 45	5
	(Propus)	86 58 10	66 22 55	27 13 25	0 9 50 B	65 27	1 28	8
		87 43 30	66 53 5	27 54 29	0 21 5 A	65 14	1 11	8
		87 55 30	66 59 55	28 5 24	0 28 5	65 10	1 4	7
		88 8 10	65 33 40	28 18 10	0 57 59 B	65 54	1 0	7
		88 22 45	67 4 5	28 30 20	0 32 35 A	65 10	0 56	7
14	In Pedem præcedentis II ⁱ Antecedens est	89 2 20	67 27 10	29 6 33	0 56 0	64 57	0 37	4.5
		89 20 30	65 58 45	29 23 55	0 22 20 B	65 39	0 31	7.8
		89 30 30	66 12 15	29 33 5	0 18 48	65 35	0 27	7
		90 0 10	66 19 35	0 0 12	0 11 25	65 30	0 13	8
		90 6 10	66 27 20	0 5 22	0 3 40	65 27	0 16	8
		90 7 10	66 39 5	0 6 42	0 8 5 A	65 20	0 11	8
		91 2 0	67 22 35	0 58 10	0 51 22	65 2	0 13	3
		91 46 0	68 13 55	1 38 30	1 42 18	64 37	0 31	7.8
		92 19 30	69 4 15	2 10 24	2 32 12	64 12	0 46	7
		92 22 30	69 22 15	2 13 30	2 50 9	64 2	0 49	7
		92 35 0	69 4 15	2 24 53	2 31 56	64 12	0 52	8
16	In extremitate Pedis dextri	92 38 0	69 38 25	2 28 20	3 6 3	63 55	0 55	4
		93 25 45	73 55 55	3 19 16	7 22 33	61 57	1 15	7
		93 23 30	72 2 45	3 23 4	5 29 15	62 47	1 16	7.8
		93 48 30	72 2 20	3 38 19	5 28 26	62 47	1 23	6.7
		94 4 40	70 22 55	3 50 58	3 48 43	63 35	1 29	7
		94 30 40	72 50 0	4 20 7	6 14 57	62 25	1 40	5
17	In sinistro Pedem sequentis II ⁱ	94 56 40	73 23 15	4 46 18	6 47 19	62 10	1 50	2.3
		95 26 0	61 33 45	4 48 34	5 2 43	67 55	2 1	7
		96 4 15	72 5 55	5 48 2	5 27 34 A	62 44	2 22	5
10	In Boreali & sinistro Genu præcedentis II ⁱ	96 12 50	64 36 45	5 36 37	2 1 30 B	66 20	2 20	3
		96 16 45	60 46 10	5 30 27	5 52 0	68 22	2 23	6
		96 22 30	60 46 45	5 35 25	5 51 40	68 22	2 24	6.7
		96 37 0	76 30 25	6 31 47	9 50 27 A	60 47	2 32	6
18	In extremo dextro Pedem sequentis II ⁱ	96 57 30	76 48 55	6 52 53	10 7 57	60 37	2 41	5.4
		97 7 0	77 1 40	7 2 57	10 20 13	60 31	2 44	6
		97 57 40	73 29 35	7 41 5	6 45 50	62 3	3 6	6.7
3	In sin. Cubito præced. II ⁱ	98 4 30	55 43 0	6 47 32	10 59 25 B	71 13	3 6	4
		98 12 0	76 16 35	8 4 35	9 31 47	72 12	3 41	6
Inf.	Supra Genu Inferioris II ⁱ	98 14 0	67 55 20	7 37 39	1 11 15 A	64 40	3 13	6
19	In Cylce Pedis sequentis II ⁱ	99 3 30	64 17 15	8 9 46	2 29 9 B	66 28	3 32	6
		99 16 0	76 28 55	9 8 19	9 40 15 A	60 44	3 39	6
		99 55 0	63 33 45	8 53 7	3 15 36 B	66 46	3 53	6.7
		100 4 30	63 42 45	9 2 13	3 7 12	66 42	3 57	6
		100 36 0	73 36 55	10 14 10	6 43 20 A	62 0	4 14	6
		100 52 0	65 23 5	9 52 20	1 30 14 B	65 50	4 16	6
21	In fessione superioris II ⁱ	101 25 0	69 1 45	10 39 31	2 5 27 A	64 5	4 31	2.4
		101 39 0	66 36 45	10 42 25	0 0 11 B	65 2	4 35	6.7
		102 27 30	73 37 25	12 11 12	6 34 25 A	61 55	5 1	6
4	In sinistro Brachio	102 52 45	59 17 50	11 9 4	7 43 7 B	68 57	5 6	5
		103 0 45	62 40 55	11 34 30	4 21 25	67 10	5 8	6
		103 23 0	65 23 45	12 9 12	1 41 5	65 44	5 18	6
		103 26 10	63 47 5	12 3 8	3 17 36	66 34	5 18	7

CATALOGUS BRITANNICUS.

7

In Constellatione GEMINORUM.

ORDO		STELLARUM Denominatio.	Rever. Cl.	Ascensio Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Varia Afic. R.			Varia D. d. P.			Magnitudo
Prod.	Trib.			0	1	2	0	1	2	30	1	2	0	1	2	1	2	3	4	5		
		Quæ est		103	38	0	74	21	55	13	13	35	7	13	25	61	33	5	26	6		
				103	52	30	73	21	45	13	21	51	6	13	13	62	6	5	30	6.5		
			n	103	55	0	64	37	25	12	33	46	2	29	56	66	6	5	30	7.6		
13	13	Ad Poplitem dextrum se- quentis II'	λ	104	9	0	61	39	5	12	28	55	5	28	39	67	36	5	36	6.7		
				105	3	30	72	56	50	14	27	14	5	40	37	62	10	6	2	5		
12	12	In Inguine sinistro sequen- tis II'	δ	105	23	30	67	29	30	14	11	36	0	13	7	64	38	6	8	3		
			γ	105	54	0	69	0	55	14	49	39	1	40	58	63	55	6	21	6.7		
8	8	In dextro Latere anteceden- tis II'	Α	106	8	0	64	24	0	14	31	55	2	55	41	66	8	6	24	5.6		
				106	12	0	66	29	55	14	49	22	0	50	57	65	6	6	25	7.8		
				106	18	0	61	48	35	14	23	25	5	31	6	67	24	6	25	6		
5	5	Inter Humeros, α μντλ- Cæne	ι	106	36	10	61	37	50	14	38	10	5	43	35	67	26	6	37	4.5		
			ν	107	9	30	69	9	55	16	0	45	1	41	55	63	48	6	51	6		
			π	107	16	40	67	38	45	14	44	55	9	45	10	69	35	6	52	5		
	24		ρ	107	19	30	67	58	5	16	1	29	0	29	28	64	20	6	54	6		
			1 ad	107	30	0	61	17	30	15	22	58	6	2	23	67	35	6	57	6		
			2 ad	107	37	30	61	29	25	15	30	51	5	58	20	67	29	7	1	6		
1	1	In Capite præcedentis II' Castor, & Apollo.	α	108	41	0	57	28	55	15	55	20	10	3	48	69	31	7	26	1		
			β	108	54	40	73	44	45	18	13	58	6	2	17	61	42	7	32	7.8		
	26		κ	108	57	45	73	33	5	18	15	17	5	50	21	61	46	7	34	6		
6	6	In Humero præcedentis II' sequeus quintam	ν	109	12	0	62	27	50	17	1	34	5	11	1	66	52	7	37	5		
				109	30	0	54	18	15	16	10	28	13	18	13	71	23	7	43	5		
			ο	109	41	0	54	45	5	16	23	22	12	52	49	71	4	7	45	5		
				110	1	30	61	17	45	17	35	36	6	26	15	67	27	7	57	6		
				110	8	30	61	30	35	17	43	29	6	14	26	67	19	8	0	6.7		
Inf. 6	27	Australis Trium in recta fe- quentium Brachium fe- quentis II' & ad Cubitum	φ	110	22	30	71	39	55	19	20	32	3	47	19	62	31	8	7	6		
	23		σ	110	58	45	60	24	45	18	17	56	7	25	46	67	49	8	22	5		
			ε	111	18	0	63	30	30	19	1	52	4	24	25	66	12	8	28	6		
7	7	In sequeute Humero fe- quentis II'	κ	111	25	0	64	54	20	19	20	18	3	2	23	65	30	8	31	4.5		
2	2	In Capite sequentis II' Pol- lux, vel Hercules	β	111	34	0	61	16	5	18	56	9	6	39	27	67	19	8	36	2		
			π	111	43	30	68	58	55	20	12	59	0	57	3	63	37	8	38	7		
				111	50	0	55	52	15	18	20	47	12	1	41	70	11	8	39	5		
Inf. 5	28	Medis Trium sequentium Brachium sequentis II'	ε	112	1	40	70	46	35	20	45	53	2	40	59	62	54	8	44	6		
				112	30	0	66	9	5	20	59	59	1	57	19	64	53	8	55	6		
	22		φ	113	37	0	62	28	30	20	55	12	5	44	38	66	32	9	22	5		
				113	39	15	66	54	30	21	39	54	1	22	20	64	26	9	23	5		
Inf. 4	29	Borea Trium sequentium dextrum Brachium fe- quentis II'	ι	114	23	0	69	20	5	22	43	34	0	54	41	63	19	9	40	6		
			1 ad	114	49	30	73	25	45	23	49	13	4	52	46	61	32	9	53	6		
				115	31	30	63	48	5	22	49	38	4	43	11	65	45	10	1	6		
				115	44	0	71	53	5	24	24	45	3	12	35	62	7	10	13	6		

In Constellatione GANCR1

			1 ad	114	49	30	73	25	45	23	49	13	4	52	46	61	32	9	53	6	
				115	31	30	63	48	5	22	49	38	4	43	11	65	45	10	1	6	
				115	44	0	71	53	5	24	24	45	3	12	35	62	7	10	13	6	

In Constellatione CANCRI.

In Constellatione CANCRI.

ORDO	Ichn.	STELLARUM Denominatio.	Borealis	Ascensio. Recla.			Distantia a Polo Bor.			Longitudo.			Latitudo.			Varia. Asc. R. D. & P.			Magnitudo.			
				o	"	"	o	"	"	s	o	"	o	"	"	"	"					
		Quæ	2 ad	α	115	44	20	54	6	15	23	4	11	4	27	15	B	65	36	10	6	
				β	115	56	45	72	43	45	24	45	35	4	0	21	A	61	48	10	7	
			II ^{ma}	γ	116	6	0	61	22	55	22	54	28	7	11	26	B	66	51	10	5	
				δ	116	23	0	57	7	15	24	10	40	1	35	13	B	64	9	10	26	
				ε	116	57	0	75	2	25	26	18	34	7	5	30	A	60	23	10	46	
				ζ	116	58	45	66	31	25	24	36	38	2	16	21	B	64	24	10	37	
				η	117	22	30	67	33	35	25	9	26	1	19	13	B	63	54	10	48	
				θ	117	26	40	61	39	25	24	7	46	7	8	1	B	66	36	10	49	
				ι	117	48	15	75	30	5	27	1	42	6	24	35	A	60	33	10	57	
			1 ad	κ	117	51	0	63	17	5	24	47	23	5	36	4	B	65	45	10	57	
			2 ad	λ	117	55	30	63	35	3	24	54	49	5	18	44	B	65	37	10	59	
			3 ad	μ	118	27	45	59	27	45	24	35	27	9	27	22	B	67	37	11	10	
				ν	118	35	30	71	27	35	27	0	22	2	17	52	A	62	8	11	14	
				ξ	119	55	0	79	53	45	29	56	19	0	19	6	A	58	46	11	46	
				η	120	17	0	61	49	10	26	38	3	7	27	32	B	66	15	11	53	
				θ	120	30	40	65	2	40	27	29	33	4	20	33	B	64	44	11	57	
			1 ad	ι	121	23	15	70	43	5	29	27	6	1	2	39	A	62	16	12	17	
				κ	121	40	0	78	25	35	21	20	11	8	31	32	A	59	16	12	19	
			1 ad	λ	121	52	50	61	7	35	27	52	28	8	25	43	B	66	24	12	26	
			2 ad	μ	121	59	15	62	5	50	28	10	32	7	30	0	B	65	54	12	27	
			1 ad	ν	122	2	45	64	29	10	28	44	18	5	10	36	B	64	49	12	30	
			2 ad	ξ	122	3	45	71	58	0	21	0	24	2	7	51	A	61	43	12	31	
			3 ad	η	122	9	30	61	8	55	20	8	7	13	8	27	31	B	66	19	12	30
				θ	122	23	0	76	22	25	21	1	34	6	22	16	A	60	2	12	37	
			2 ad	ι	122	32	30	64	52	20	29	15	40	4	53	45	B	64	35	12	38	
			3 ad	κ	122	49	0	74	48	5	21	1	39	4	45	26	A	60	31	12	47	
				λ	123	16	30	74	55	0	29	55	6	4	59	48	B	64	30	12	56	
3	3	Austrina præcedentium in quadrilatero circa Nubem	1 ad	α	123	28	15	70	53	40	21	24	44	0	47	46	A	62	3	12	58	
			4 ad	β	123	39	15	64	54	0	0	15	14	5	5	16	B	64	29	13	47	
2	2	Borea præcedentium in quadrilatero circa Nubem	1 ad	γ	123	41	15	68	32	35	1	5	29	1	32	33	B	62	56	13	46	
				δ	123	55	40	78	55	40	3	38	1	8	31	50	A	59	1	13	11	
			1 ad	ε	124	21	30	69	22	45	1	53	19	0	52	1	B	62	34	13	19	
			2 ad	ζ	125	4	0	79	13	4	4	49	27	8	39	1	A	58	47	13	31	
				η	125	18	30	79	23	15	5	4	30	8	40	4	A	58	46	13	39	
				θ	125	27	45	69	10	15	2	50	50	1	18	18	B	62	32	13	42	
				ι	125	33	30	68	58	10	2	53	10	1	31	18	B	62	34	13	44	
				κ	125	34	45	68	55	30	2	53	53	1	34	10	B	62	34	13	44	
				λ	125	40	0	69	25	15	3	5	25	1	6	22	B	62	24	13	46	
				μ	125	42	45	69	13	15	3	5	9	1	18	37	B	62	29	13	47	
				ν	126	19	0	67	27	10	3	13	0	3	9	41	B	63	6	13	59	
			1 ad	ξ	126	21	45	70	45	30	4	2	35	0	3	15	A	61	51	13	59	
				η	126	31	0	76	15	15	5	29	46	5	20	36	A	59	49	14	4	
				θ	126	33	30	58	13	5	1	11	45	12	10	46	B	67	5	14	4	
				ι	126	45	10	70	44	35	4	23	40	0	3	46	B	61	49	14	6	
				κ	126	57	30	60	8	40	2	0	53	10	23	40	B	66	7	14	11	
				λ	126	57	50	78	50	20	6	32	22	7	44	58	A	58	53	14	11	
			2 ad	μ	127	28	20	76	47	55	6	31	37	5	38	58	A	59	33	14	27	
			1 ad	ν	128	19	30	56	24	5	2	12	44	14	18	33	B	67	40	14	39	
				ξ	128	25	15	72	52	30	6	27	0	1	37	15	A	60	53	14	43	
			1 ad	η	128	25	30	60	36	55	3	23	2	10	15	12	B	65	43	14	40	
				θ	128	25	30	73	32	50	6	37	10	2	16	16	A	60	40	14	42	
			2 ad	ι	128	30	20	60	31	15	3	26	1	10	21	47	B	65	43	14	44	
			3 ad	κ	128	47	30	66	32	25	3	41	1	10	24	34	B	65	42	14	48	

CATALOGUS BRITANNICUS.

9

In Constellatione CANCRI.

ORDO		STELLARUM Denominatio.	Ascensio Recta.	Distantia à Polo B.	Longitudo.	Latitudo.	Vari. Afe. R. D. à P.	Vari. Afe. R. D. à P.	Magnitudo
Tab.	Pol.								
		Quæ est	2 ad	128 48	0 58 16 55	3 6 12	12 35 34 B	66 41 14 49	5.6
			4 ad	129 15 15	0 55 56 5	4 10 51	10 8 24 B	55 27 14 55	6
			2 ad	129 25	0 55 56 5	2 59 35	14 59 41 E	67 40 15	5.6
			1 ad	129 44	0 77 13 20	8 46 33	5 30 32 A	59 17 15 74.5	
				129 45 16	0 53 36 45	3 59 42	12 29 1 B	66 24 15 7	6
			1 ad	129 58	0 73 32 10	8 2 56	1 53 16 A	60 22 15 11	6
			2 ad	130 3 20	0 73 16 25	8 3 51	1 36 45 A	60 37 15 13	6
			3 ad	130 5 20	0 58 24 50	3 47 50	14 40 45 B	67 22 15 12	6
			2 ad	130 22	0 76 48 35	9 18 34	5 6 27 A	59 20 15 20	4
			4 ad	130 34	0 56 34 30	4 7 21	14 37 46 B	67 14 15 20	6
			5 ad	130 48 30	0 60 54 55	5 30 37	10 30 5 B	65 15 15 20	6
				131 5	0 71 43 50	8 36 41	0 7 56 B	61 5 15 35	5
			1	131 7	0 64 21 55	6 42 12	7 14 33 B	63 48 15 30	6
			6 ad	131 23 45	0 54 35	6 0 40	10 37 48 B	65 9 15 30	5
				131 55 30	0 71 24 10	9 17 40	0 39 31 B	61 7 15 45	7
			1	132 19	0 59 8 10	6 18 14	12 34 6 B	65 46 15 55	6.7
				132 27	0 73 30 5	12 20 20	1 13 45 A	60 20 15 58	6
				132 32	0 74 15 10	10 27 7	1 55 52 A	60 6 16 0	6
				132 37 15	0 62 7 25	7 23 59	9 46 2 B	54 29 16 0	5.7
Inf. 2		Sequitur extremitatem Au- stralis Forficis	1	132 43 30	7 5	11 50 44	5 36 8 A	53 42 16 4	5
Inf. 3		Duarum supra Nubem se- quentium præcedens	1	132 51 40	66 44 5	8 52 45	5 23 24 B	52 40 16 6	5.6
				132 56 20	71 18 0	10 11 15	1 0 54 B	61 3 16 8	6
				133 7 15	66 46 40	9 7 14	5 24 49 B	62 37 16 11	8
				132 37 20	70 43 0	10 30 19	1 45 5 B	61 21 16 20	7
Inf. 1		Supra Flexum Australis Forficis	1	133 49 30	73 47 5	11 41 7	1 8 31 A	60 8 16 23	7
				134 31	0 73 48 25	12 19 48	0 58 45 A	60 3 16 37	6
				135 23 45	71 0 55	12 20 54	1 56 7 B	50 54 16 50	6

In Constellatione LEONIS.

1	1	Quæ est in Nac	x	136 37	0 62 30 55	14 10 57	28 10 23 51 B	63 40 17 12	4
			w	137 57	0 79 37 45	17 12 57	5 35 27 A	58 2 17 36	5
				137 58 30	80 29 25	17 29 46	6 24 22 A	57 47 17 57	6
			1	138 28	40 65 41 55	13 32 13	7 51 27 B	62 20 17 44	4
			12 12	138 47	30 77 22 15	17 19 44	3 11 22 A	53 56 17 51	4
				138 49 20	78 57 0	17 50 1	4 41 12 A	58 9 17 51	6
				139 42	30 74 16 25	17 14 26	0 1 52 B	59 28 18 0	6
				139 58	30 72 12 10	16 51 10	2 4 54 B	60 2 18 10	6
				140 1 30	63 58 5	14 21 5	9 55 48 B	62 41 18 13	6
				140 11 30	81 48 25	19 59 58	6 59 54 A	57 17 18 14	5
				140 15	0 74 17 5	17 44 24	9 10 48 B	59 25 18 15	6
				140 20 30	63 16 5	14 24 14	10 41 9 B	62 52 18 15	7.8
				140 57	20 62 42 25	14 45 16	11 23 26 B	62 57 18 25	6
			13 13	141 8	20 78 43 45	19 56 8	3 46 50 A	58 6 18 30	3.4
				141 18	0 58 37 45	13 42 32	15 21 3 B	64 13 18 29	6
			11 11	141 42	10 74 35 45	19 10 4	0 19 3 B	59 12 18 38	6
			3 4	142 2	0 64 49 45	16 22 16	9 41 4 B	62 4 18 41	3
				142 24	30 76 47 45	20 50 28	1 33 23 A	58 31 18 48	6
				142 40	0 77 2 5	20 49 20	1 42 11 A	58 25 18 52	7
				143 5	0 67 24 25	18 7 32	7 32 58 B	61 7 19 0	6

In Constellatione LEONIS.

QRDO	STELLARUM Denominatio.	Ascensio Recta	Distantia à Polo B.	Longitudo.	Latitudo.	Variat. Afc.	Variat. D. d. P.	Magnitudo.
	Que	143 31 15	76 44 25	21 31 2	1 9 33 A	58 27 19	6 7	
		143 32 30	64 10 0	17 27 45	10 45 1 B	52 11 19	3 6	
		143 33 30	75 30 35	21 9 25	0 1 7 B	58 46 19	6 6	
4 3	In Capite duarum Boreæ	143 45 06	23 33 5	17 6 26	12 19 29 B	52 28 19	8 3.4	
		145 14 30	77 13 25	23 15 36	1 4 24 A	58 12 19	30 6.7	
		145 19 07	73 19 39	22 3 5	2 37 58 B	59 12 19	32 7	
10 10	In antecessoria Cordis	145 22 20	76 6 25	23 0 52	0 1 25 B	58 28 19	33 4.5	
		145 53 45	80 14 0	24 51 29	3 42 16 A	57 26 19	40 7	
14 14	In sinistro Geou	145 56 15	80 29 45	24 59 4	3 56 18 A	57 27 19	39 4	
7 7	Trium in Collo Austrina	147 35 15	71 45 5	23 34 24	4 50 20 B	59 21 20	4 3.4	
9 9	Corde Australior, quasi in Pectore	147 51 07	80 30 35	26 5 36	1 26 15 A	47 41 20	8 5	
8 8	In Corde dicta <i>Regulus</i>	147 57 07	76 32 45	25 31 20	0 26 38 B	58 8 20	8 1	
		148 29 07	72 47 45	24 44 0	4 8 45 B	59 22 20	18 6.7	
		148 43 30	75 8 30	25 45 12	2 1 10 B	58 26 20	20 7	
5 5	Trium in Collo Boreæ	149 49 45	64 58 20	23 11 28	11 54 55 B	60 46 20	34 6	
		149 50 10	65 3 55	23 13 41	11 50 13 B	60 45 20	34 3	
		149 52 15	74 45 15	26 46 1	2 48 7 B	59 39 20	33 6	
		150 0 0	68 45 10	24 41 4	8 26 8 B	59 49 23	37 6	
		150 2 30	65 21 55	23 30 52	11 37 13 B	60 40 20	35 6	
		150 41 20	68 58 45	25 22 25	8 26 51 B	59 39 20	43 6	
6 6	Trium in Collo Media & sequens	150 41 50	68 35 55	25 15 5	8 47 27 B	59 44 20	44 2	
		151 16 30	73 29 35	27 29 23	4 24 54 B	58 31 20	52 6	
		151 39 15	81 54 30	27 0 47	10 3 20 14 A	56 41 20	58 6	
		152 12 40	79 39 45	0 30 39	1 2 27 A	57 7 21	4 5.6	
		152 48 30	78 40 45	0 42 45	0 5 8 B	57 17 21	10 6	
16 16	Trium in Ventre præcedens	153 53 30	74 17 45	0 7 58	4 33 27 B	58 6 21	22 6	
15 15	In sinistra Axilla	154 6 40	79 7 10	2 3 50	0 7 48 B	57 7 21	24 4	
		154 38 50	81 28 15	3 24 5	1 52 27 A	56 36 21	31 6	
		154 41 10	79 45 55	2 49 25	0 16 10 A	56 52 21	30 6	
		155 34 10	72 17 5	0 54 21	7 0 48 B	58 16 21	40 7.6	
		157 25 06	69 29 50	1 30 14	10 14 52 B	58 39 21	59 6	
17 17	Trium in Ventre sequens, & Boreæ	157 28 45	74 11 25	3 19 21	5 54 48 B	57 41 22	0 6	
18 18	Austrina trium in Ventre	158 13 45	77 50 15	5 21 19	2 47 40 B	57 0 22	8 6	
Inf: 2 35	Duarum supra Dorsum se- quens	159 41 06	33 36 55	1 10 21	16 28 40 B	59 15 22	18 4.5	
		159 55 50	87 37 55	10 34 32	5 39 57 A	55 24 22	22 6.5	
		159 58 08	82 10 35	8 33 28	0 35 51 A	56 13 22	24 6.7	
		160 3 30	87 56 15	10 48 37	5 54 3 A	55 20 22	23 6	
Inf: 5 40	Trium sub Ventre Austrina	161 7 50	84 44 5	10 35 34	2 31 51 A	55 46 22	33 6.5	
Inf: 4 39	Trium sub Ventre Media	161 9 10	82 14 55	9 40 33	0 13 16 A	56 6 22	34 5	
19 19	Duarum in Lumbis præcedens	161 25 30	68 10 0	4 31 0	12 54 5 B	58 12 22	35 5	
		161 27 50	90 50 5	13 13 40	8 3 1 A	54 58 22	37 5	
		161 55 40	88 21 5	12 42 21	5 34 35 A	55 16 22	41 6	
Inf: 3 38	Trium sub Ventre Boreæ	162 14 30	81 0 15	10 12 9	1 20 21 B	56 14 22	42 4.5	
		162 44 45	65 1 0	4 23 30	16 16 29 B	58 29 22	46 6	
		162 46 08	66 22 45	12 43 44	3 26 1 A	55 30 22	45 6	
		162 56 20	89 39 45	14 8 56	6 24 8 A	55 6 22	47 6	
		163 1 45	63 41 5	4 4 56	17 35 54 B	58 37 22	48 6	
20 20	Duarum in Lumbis sequens	164 22 40	57 47 55	6 57 21	14 19 4 B	57 45 22	59 2.3	
		164 28 08	88 23 55	15 4 39	4 38 53 A	55 13 22	58 5.6	
21 21	Duarum in Coxis Boreæ	164 28 40	72 53 35	9 5 31	9 39 50 B	57 5 23	0 6	
		164 39 07	52 35	8 26 34	11 35 5 B	57 19 22	59 6	

CATALOGUS BRITANNICUS.

11

In Constellatione LEONIS.

ORDO	STELLARUM Denominatio.	Bates. Pos.	Ascensio Recta	Distantia à Polo B.	Longitudo.	Latitudo.	Varia. Asc. R. D. à P.	Magnitudo.
Pos.	Trab.		° ' "	° ' "	° ' "	° ' "	' " "	
22 22	Quæ est Duarum in Coxis Austrina		164 39 15 164 53 45 165 13 30	65 13 59 75 1 5 91 58 25	112 6 8 13 10 18 7 17 10 13	16 46 2 B 7 51 41 B 7 39 5 A	58 32 25 59 56 47 23 2 54 48 23 4	5 4 4
24 24	In posterioribus Poplitibus		165 19 30 165 44 45 165 15 0	86 18 5 86 39 55 82 17 15	15 3 39 15 35 19 14 22 39	2 22 53 A 2 33 21 A 1 40 56 B	55 27 23 5 55 23 23 7 55 51 23 11	5 6 4.5
23 23	In posterioribus Femoribus		166 55 30 167 1 45 167 5 30	77 46 5 86 54 25 84 26 45	13 12 58 16 51 53 15 57 51	6 5 10 B 2 15 55 A 2 0 35 B	55 16 23 13 55 19 23 15 55 35 23 16	4 5.6 6
			167 20 45 167 25 30 167 44 0	71 51 15 84 55 25 85 18 25	11 14 0 16 27 27 16 53 22	11 41 40 B 0 18 5 A 0 32 7 A	56 50 23 17 55 30 23 18 55 28 23 19	6 7.8 7.8
25 25	Australior 24 ^m (σ) quasi in Cubitis		167 59 30 168 22 30	85 27 5 72 53 1	17 11 0 12 34 10	0 34 4 A 11 8 9 B	55 28 23 21 56 35 23 21	4 6
33			168 34 0 168 37 15 168 56 0	69 53 35 91 18 5 73 55 25	11 30 49 20 3 13 13 29 27	13 57 10 B 5 42 22 A 10 23 53 B	56 52 23 23 54 55 23 24 56 26 23 24	6 4.5 6
26 26	In Volis Pedum posteriorum		169 37 0 169 37 15 170 16 0	85 13 45 71 29 45 89 7 35	18 35 11 13 6 41 20 42 52	0 16 9 B 12 53 8 B 3 3 35 A	55 27 23 28 56 35 23 28 55 52 23 21	6 6 6
27 27	In extremitate Caudæ		171 9 0 172 59 0 173 18 10 174 55 10	66 56 5 68 4 5 73 42 25 72 38 10	12 32 21 14 38 50 17 19 14 18 19 27	17 38 0 B 17 18 9 B 12 16 51 B 13 53 21 B	56 42 23 35 56 17 23 42 55 51 23 41 55 46 23 47	6 4 4.2 6

In Constellatione VIRGINIS.

2 1	Duarum in summo Cranio Boreæ		170 36 50 172 19 40	80 9 35 80 1 55	117 30 5 19 0 29	5 19 13 B 6 6 21 B	55 44 23 32 55 34 23 39	6 5
1 2	Austrina Sequens σ minor ad In summa Ala Austrina & sinistra		172 28 40 172 59 50 173 38 0 174 47 0 175 1 0	81 44 35 80 2 30 86 30 5 77 50 15 84 37 45	19 49 35 19 37 15 22 46 14 21 9 47 24 12 31	4 35 39 B 6 21 33 B 0 40 47 B 7 14 53 B 3 20 31 B	55 31 23 40 55 34 23 42 55 12 23 44 55 28 23 46 55 11 23 49	5 6 3 6 5.6
4 4	Duarum in Vultu Austrina Boreæ		176 14 20 177 21 10 178 27 30 178 33 20 179 25 0 180 42 30 180 50 45 181 1 0	81 39 55 79 33 5 86 22 15 82 28 25 78 1 25 89 4 10 97 10 55 88 57 5	23 13 29 23 23 6 27 8 22 25 39 56 24 39 13 20 16 44 3 38 52 0 30 52	6 8 52 B 8 31 29 B 2 42 52 B 6 19 31 B 10 44 24 B 1 8 8 B 6 14 52 A 1 22 1 B	55 17 23 50 55 18 23 53 55 4 23 52 55 10 23 51 55 10 23 53 55 3 23 54 55 2 23 54 55 0 23 54	5 5 6 6 6.7 6 6 4.3
6 6	De quatuor in sinistra Ala precedens		181 8 40 181 41 40 182 17 0 183 25 45 184 21 0 184 27 0 185 15 10 185 24 10 185 35 40 185 31 20	84 57 55 82 58 15 74 33 45 77 34 25 78 0 5 97 44 25 80 6 0 82 19 30 82 43 55 84 8 45	29 2 17 28 44 18 26 42 10 28 6 34 29 7 51 7 9 52 0 49 45 1 3 33 2 4 0 6 42 20	5 4 22 B 7 7 9 B 15 26 6 B 12 44 47 B 12 43 22 B 5 19 47 A 11 9 52 B 1 10 10 B 8 49 30 B 1 35 32 A	55 0 23 54 54 56 23 54 54 42 23 52 54 45 23 52 54 41 23 52 55 14 23 51 54 39 23 48 54 39 23 48 54 45 23 46 55 11 23 48	6 6 6 6 6 6 6 6 6 6

In Constellatione VIRGINIS.

ORDO	STELLARUM Denominatio.	Ascensio Recta.	Distantia à Polo B.	Longitudo.	Latitudo.	Variatio Aff. R. D. & P.	Magnitudo.
Pol.	Th.	0 1 "	0 1 "	50 1 "	0 1 "	1 " 1 "	
Inf. 1	34	Trium in recta sub sinistro Cubito præcedens	185 49 40	96 17 25	7 50 38	3 27 23 A	55 18 23 48 5
			186 30 0	77 52 35	1 3 5	13 41 27 B	54 28 23 47 6
7 7	11 11	De 4 ^{ma} in Ala sinistra sequens Trium in dextra & Borea Ala præcedens	186 30 0	95 48 0	8 15 49	2 44 25 A	55 14 23 46 6
			186 30 10	89 45 5	5 52 11	2 48 53 B	55 02 23 46 3
12 12	12 12	Trium in dextra & Borea Ala Austrina,	186 33 10	78 3 35	1 10 33	13 32 49 B	54 29 23 46 5
			186 33 40	81 29 35	2 36 14	10 24 45 B	54 38 23 47 6
			187 29 20	80 37 45	3 6 18	11 34 15 B	54 31 23 44 6
			187 40 0	78 43 45	2 28 51	13 22 45 B	54 25 23 43 6 7
			187 54 40	76 21 5	1 42 11	15 39 1 B	54 15 23 41 6
			188 1 30	84 43 45	5 16 0	8 1 40 B	54 41 23 42 6
			188 21 0	74 10 55	1 10 28	17 47 57 B	54 42 23 41 6
			188 58 0	85 14 30	6 20 30	7 55 50 B	54 43 23 38 6
Inf. 3	34	Trium in recta sub sinistro Cubito, Media	189 21 20	91 51 15	9 19 04	2 0 34 B	55 7 23 37 6
			189 23 15	97 22 30	11 31 30	3 3 16 A	55 28 23 38 6
			189 33 50	97 51 5	11 52 25	3 25 22 A	55 31 23 34 5
			189 35 10	75 53 55	3 3 5	16 43 33 B	54 22 23 36 6
10 10	8 8	In dextro Latere sub Cingulo De quatuor in dicta Ala Borea, tertia	189 49 20	80 29 30	5 12 10	12 37 27 B	54 21 23 36 6
			190 0 0	84 54 50	7 9 54	8 38 27 B	54 40 23 35 3
			190 55 40	92 8 25	10 52 55	2 21 50 B	55 8 23 30 6
13 13	13 13	Trium Borea in dextra Ala, Fidematrix	190 57 10	92 57 40	10 54 1	2 23 4 B	55 8 23 30 6
			191 11 10	91 41 10	10 56 32	2 55 55 B	55 7 23 29 6
Inf. 3	36	Trium Borea in dextra Ala, Fidematrix	191 41 10	77 22 25	5 37 40	16 12 54 B	53 58 23 30 3
			192 0 30	91 58 30	11 48 45	2 56 15 B	55 10 23 25 6
9 9	36	Trium in recta sub sinistro Cubito Austrina	192 55 30	99 4 45	15 25 9	3 15 3 A	55 50 23 20 5
			193 23 30	98 41 5	15 41 28	2 42 31 A	55 50 23 17 6
		De quatuor ultima & sequens	193 28 40	93 52 35	13 54 23	1 45 29 B	55 22 23 16 4
			193 53 10	98 30 30	16 4 27	2 21 25 A	55 49 23 15 6
Inf. 4	37	Trium quasi in recta sub Spica præcedens	193 54 0	104 31 5	18 25 56	7 53 20 A	56 28 23 14 4 5
			194 13 30	107 9 50	19 46 20	10 12 6 A	56 44 23 14 6
			194 33 0	108 16 50	20 30 30	11 6 24 A	56 54 23 11 6
			194 39 0	98 43 0	16 51 7	2 15 25 A	55 53 23 11 6
			194 47 30	108 16 40	20 43 20	11 0 50 A	56 56 23 10 6
			195 19 50	98 41 40	17 27 52	1 58 38 A	55 55 23 6 6
29 30	30	Sequitur Fidematrix præced. 3 ^{ra} in recta, Ala Borea	195 19 40	78 56 40	9 41 3	16 13 7 B	53 48 23 7 6 7
			195 29 30	82 53 25	11 27 17	12 33 30 B	54 13 23 5 5
			195 32 45	106 34 25	20 43 10	9 9 50 A	56 49 23 6 4 5
			196 2 0	99 38 50	18 28 19	2 35 25 A	56 42 23 1 6
Inf. 5	38	Trium dictarum Media dupl.	196 36 0	106 5 30	21 28 22	8 19 41 A	56 53 23 5 6
			196 37 50	83 12 55	12 39 6	12 48 11 B	54 11 23 5 6
			196 49 50	93 16 40	16 46 0	3 35 51 B	55 23 23 5 6
			197 6 0	93 32 0	17 8 20	3 27 34 B	55 25 23 5 6 7
			197 14 0	99 32 0	19 31 21	2 1 59 A	56 8 23 5 1
14 14	14	In Manu sinistra dicta Spica	197 26 30	101 3 45	20 26 48	3 18 24 A	56 21 23 5 4
			197 44 15	104 21 0	21 49 15	6 17 54 A	56 48 23 5 6
			198 19 30	74 33 25	10 38 7	21 24 35 B	52 59 23 4 5 6
			198 28 45	77 33 55	12 4 17	18 42 49 B	53 20 23 4 6
Inf. 6	39	Trium sequens & Austrina	198 34 45	94 52 5	18 59 18	2 47 25 B	55 40 23 4 6
			198 50 15	107 6 45	22 52 14	8 26 42 A	57 20 23 4 1 6

CATALOGUS BRITANNICUS

13

In Constellatione VIRGINIS.

ORDO	STELLARUM Denominatio.	Ascensio Reclia.	Distantia a Polo B	Longitudo.	Latitudo.	Varia. Varia. Af. R. D. d P.	Magnitudo.
Par.	Tycho	o ' "	o ' "	h. o ' "	o ' "	' ' ' "	
16 16	Quæ Borea præced. Lateris in sinistro Femore	198 58 50	94 32 35	19 16 27	3 8 55 B	55 38 22 40	6
		199 5 15	103 44 50	22 48 20	5 14 34 A	56 51 22 39	6
17 18	Austrina præcedentis Late- ris dicti Quadrilateri	199 10 45	98 33 25	20 55 51	0 24 7 A	56 11 22 38	6
		199 19 20	96 0 50	20 6 23	2 0 27 B	55 47 22 34	7
31	Media 3 ^{ta} in recta Ala Borea	199 37 0	84 44 25	16 3 48	12 33 1 B	54 17 22 35	6
15 15	Sub Ventris Velo in dextro Femore	199 44 0	89 0 20	17 49 50	8 39 9 B	54 50 22 34	6
		199 51 30	93 48 35	19 46 12	4 15 21 B	55 3 22 33	6
		200 22 20	96 16 35	21 10 24	2 9 20 B	55 54 22 29	6
18 17	Duarum in Latere sequente Quadrilateri Borea	201 21 0	97 7 35	22 23 31	1 43 45 B	56 5 22 21	6
		201 38 25	104 36 15	25 26 5	5 6 32 A	57 15 22 17	
		201 52 30	84 52 55	18 15 4	13 16 45 B	54 12 22 16	
		202 15 20	104 11 45	25 50 3	4 30 32 A	57 12 22 15	6
20	In sinistro Genu	202 22 50	100 51 35	24 43 6	1 21 46 A	56 4 22 14	
		202 40 20	106 17 35	26 59 24	6 18 29 A	57 23 22	
		203 2 15	95 16 35	23 16 7	4 4 48	55 52 22	
		203 17 30	106 34 55	27 32 36	6 31 27 A	57 45 21	
21 27	In dextro posteriore Femore	204 42 50	89 57 55	22 52 22	9 57 22 B	55 1 21	
		204 43 0	87 25 9	21 55 9	11 59 34 B	54 55 21 4	6
		205 10 50	87 25 5	22 31 32	12 9 41 B	54 31 21 4	
32	Ultima 3 ^{ta} in recta Ala Borea	206 28 40	86 56 35	23 24 55	13 4 50 B	54 28 21 20	
		207 29 45	97 23 25	28 10 30	3 41 48 A	57 29 21 47	6
		207 36 0	97 49 5	28 25 25	3 19 59 B	56 30 21 17	6
		208 7 30	98 51 45	29 16 54	2 32 20 B	56 43 21 11	5
		209 1 30	98 25 45	29 57 42	3 15 23 B	56 41 21 6	6
23 22	Trium in tractu Vestis circa Pedes Austrina	209 6 50	98 48 45	30 10 40	2 55 40 B	56 46 20 59	4
22 21	Media trium	209 57 30	94 30 5	29 27 36	7 15 40 B	55 57 20 49	4
25 24	In extremo sinistro Pede & Austrina	210 36 40	101 55 25	2 38 13	0 31 4 B	57 32 20 40	4
		210 39 30	72 17 10	21 35 23	8 12 20 B	55 10 22 5	6
		210 55 30	90 49 5	29 4 40	11 2 57 B	55 9 20 38	5
24 20	Borea Trium in tractu Vestis circa Pedes.	211 31 0	90 33 25	29 33 5	11 30 3 B	55 6 20 29	5
		212 50 20	94 41 10	32 14 42	8 4 23 B	56 3 20 12	6
		213 4 30	90 49 10	1 8 14	11 47 25 B	55 11 20 8	4
		213 8 30	95 28 30	2 48 1	7 25 56 B	56 10 20 9	6
26 25	In extremo dextro & Boreo Pede	216 42 0	94 17 35	5 47 23	9 43 8 B	56 4 19 19	4
		217 26 0	87 57 25	4 22 44	15 56 52 B	54 28 19 6	6
		217 38 30	86 47 25	4 10 50	17 7 1 B	54 12 19 3	4
	In Monte Menali Heveliana	221 49 20	86 40 25	8 17 42	18 24 15 B	54 4 17 57	6

In Constellatione LIBRÆ.

	Quæ est		209 46 30	115 46 45	11 6 44 44	12 45 33 A	60 37 20 52 5 6
			211 42 45	100 16 5	3 5 16	2 26 33 B	57 14 20 26 7
			215 23 0	113 40 0	10 52 46	9 1 22 A	61 119 37 6
			216 21 0	113 39 5	11 43 17	8 43 9 A	61 419 23 6
			217 15 40	104 6 40	9 28 27	0 35 38 B	58 36 19 10 6
			218 2 15	116 28 20	14 10 0	11 3 20 A	62 1618 56 5
2 2	Duarum in summa Forcipe, vel Chela Boræ & obscurior	μ	218 7 0	102 50 15	9 51 43	2 3 54 B	53 16 18 57 5
			218 25 0	104 40 45	10 47 45	0 24 26 B	58 49 18 52 6

STELLARUM INERRANTIUM.

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ORDO	STELLARUM Denominatio.	Ascensio. Recta.	Distantiā ā Polo B.	Longitudo.	Latitudo.	Varia. Asp. R.	Varia. D. d. P.	Magnitudo.
Pol.	Tric.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
1	1	Quæ Duarum in summa Chela lucida est, <i>Aufrina Lanx</i>	α 218 28 10	104 43 35	110 46 40	0 22 51 B	58 52 18 51 2	
			218 38 25	107 1 45	11 39 14	1 45 30 A	59 28 18 47 6	
			218 45 0	90 59 25	6 41 5	13 30 17 B	55 12 18 45 6	
			219 6 30	113 20 50	14 2 47	7 37 33 A	61 23 18 42 6	
		1 ad	219 24 45	100 36 35	10 22 31	4 34 38 B	57 48 18 37 6	
			219 52 45	114 9 55	14 58 48	8 11 5 A	61 46 18 27 6	
		2 ad	220 1 40	100 8 25	10 47 59	5 12 27 B	57 42 18 26 6	
			220 16 0	92 3 55	8 50 18	12 0 48 B	55 48 18 25 6	
			220 22 30	99 52 45	11 3 19	5 33 48 B	57 39 18 22 7	
			220 32 45	99 52 35	11 12 55	5 37 3 B	57 38 18 18 6	
4	4	Obscura præcedit lucidam in summa Chela Boreæ Præcedens trium Austrina ^{sum} ipsa Forcipe Australior	β 221 8 0	97 16 15	10 58 34	8 16 34 B	56 58 18 8 4 5	
Inf. 7	17		γ 221 31 0	114 1 45	16 22 31	7 35 56 A	61 56 18 2 3	
		1 ad	222 22 0	105 2 5	14 28 1	1 13 43 B	59 16 17 48 5	
		2 ad	222 24 45	105 15 35	14 34 16	1 1 32 B	59 20 17 47 6	
			222 25 0	114 6 35	17 11 25	2 25 50 A	62 7 17 47 7	
5	18	In Medio Austrina ^{sum} Forcipes, 1 ad	δ 223 40 30	108 35 15	16 41 43	1 48 23 A	60 31 17 25 4 3	
		2 ad	223 57 10	108 27 0	16 54 30	1 35 58 A	60 37 17 20 4	
			224 18 10	106 34 0	16 41 20	0 18 3 B	59 54 17 15 6	
			225 6 30	98 12 45	15 3 40	8 52 3 B	57 24 17 2 2	
			225 51 40	106 59 20	18 14 26	0 18 56 B	60 11 16 50 6	
		1 ad	225 57 40	104 24 0	17 36 48	2 49 46 B	59 21 16 47 7	
		2 ad	226 28 30	103 58 45	17 58 32	3 22 18 B	59 13 16 36 6	
Inf. 1	10	Antecedens trium Boreali- orum ipsa Forcipe, & Boreæ	ε 226 52 30	99 10 40	17 1 43	8 5 44 B	57 48 16 30 4	
		1 ad	227 44 0	105 36 15	19 35 30	2 18 17 B	59 53 16 16 6	
		2 ad	228 3 15	106 10 15	20 2 23	1 40 27 B	60 6 16 9 7	
			228 19 15	105 30 20	20 6 40	2 23 6 B	59 53 16 3 6	
		3 ad	228 53 0	105 45 50	20 42 5	2 16 39 B	60 3 15 54 4	
		4 ad	228 59 30	116 57 55	23 44 54	8 30 16 A	64 2 15 52 6	
			229 19 30	98 58 10	19 19 41	8 56 50 B	57 47 15 44 6	
7	7	In medio Boreæ Forcipes Duarum reliquarum se- quentium Boreali- Australior	γ 229 34 30	103 43 15	20 48 53	4 25 27 B	59 25 15 40 3 4	
Inf. 8			229 35 0	117 4 20	24 17 28	8 28 9 A	64 12 15 40 4	
Inf. 9			229 55 30	118 43 10	25 1 17	9 58 50 A	64 56 15 34 4	
			230 18 0	108 14 25	23 39 2	0 14 7 B	61 2 15 26 6	
			230 31 40	112 46 20	24 0 34	4 5 38 A	62 39 15 21 6	
Inf. 5	11	Trium inter Forcipes præced. Sequitur 7 ^{ma} (γ) in Boreæ	κ 231 3 40	108 38 20	23 27 0	0 1 54 B	51 14 15 10 4	
			231 41 40	104 38 55	23 2 38	4 2 52 B	59 52 15 0 4	
Inf. 4	12	Trium inter Forcipes sequens Austrina	λ 233 52 0	109 12 5	26 9 43	0 7 50 B	61 38 14 17 4	
			234 4 30	105 46 55	25 33 4	3 30 4 B	60 25 14 13 4	
			234 18 0	108 25 10	26 22 37	0 9 13 B	1 43 14 13 6	
			235 13 15	103 20 35	26 4 4	6 7 48 B	59 39 13 4 4	
			235 45 15	105 34 35	27 4 53	4 4 20 B	60 25 13 38 6	
			236 4 0	97 30 25	25 32 16	12 0 9 B	57 35 13 31 6	
Inf. 3	15		236 50 30	100 28 55	26 58 43	9 16 29 B	58 43 13 13 4 5	

In Constellatione SCORPII.

	Quæ est	δ 233 7 20	114 46 10	26 48 50	5 26 33 A	53 44 14 34 6	
	1 ad	233 47 0	114 21 45	27 18 8	4 54 13 A	53 39 14 17 5	
	2 ad	234 2 30	114 17 5	27 30 49	4 46 19 A	53 37 14 13 7	

In Constellatione SCORPII.

ORDO	Stellarum Denominatio.	Reperit Ordo	Ascensio Recta		Distantia a Polo B		Longitudo		Latitudo		Variat. Asc. R.		Variat. Des. P.		Magnitudo.				
			0	1	2	3	4	5	6	7	8	9	10	11		12			
4 3 2	Quæ est In altero Pedum Trium in fronte lucidarum Australis Trium in fronte lucidarum Media	f π δ	234	14	15	115	18	45	27	55	48	54	3	14	8	6			
			234	27	10	118	16	0	28	48	53	55	2	14	7	4			
			235	3	30	115	10	50	28	37	25	54	6	13	52	3			
			235	32	30	111	42	10	28	15	50	52	47	13	43	3			
1	Trium in fronte lucidarum Borea	β	236	53	30	109	55	10	28	52	56	51	43	13	12	2			
6 6	Duarum adjacentium } 1 ad Boreæ frontis Australis, 2 ad	α α	237	12	20	109	47	20	29	21	35	52	11	13	5	5			
			237	21	0	109	59	30	29	32	9	50	52	13	6	5			
			237	36	0	101	52	30	28	1	11	8	4	40	59	12	5.6		
10 10 5 5	In ultimo Pede Australis, 1 ad Sequens, 2 ad Duarum adjacentium Boreæ frontis Borea	ε ε ν χ	238	18	30	117	34	5	2	0	35	43	3	12	4	6			
			238	20	15	117	5	5	1	55	59	63	22	12	43	6			
			238	32	0	108	36	55	0	20	11	61	50	12	41	4			
			238	46	0	99	12	40	28	35	7	10	54	30	58	18	12	34	5
			238	51	30	97	37	41	28	19	54	12	29	24	57	43	12	3	6
7 7 8 8	Præcedens trium lucidarum in Corpore Media trium lucidarum in Corpore dicta Antares	σ α α	239	42	45	97	31	5	29	9	23	57	43	12	15	4			
			240	31	45	113	23	25	3	7	35	63	59	11	57	6			
			242	37	30	114	48	5	3	29	24	3	59	4	64	34	11	55	5
9 9	Australis trium lucidarum in Corpore	π π π	242	37	30	115	41	55	5	26	4	4	31	26	65	8	11	10	1
			242	52	15	114	23	10	5	25	12	3	11	30	62	25	11	4	5.6
			244	10	0	117	31	30	7	7	56	6	4	23	66	9	10	30	4
12	In primo a Corpore Caudæ Spondylo	ε ε ε ε ε	245	56	15	107	6	25	6	59	26	4	28	18	61	45	9	57	6
			247	0	0	114	55	20	9	12	54	3	5	10	65	0	9	37	6
			247	32	30	123	40	45	11	3	32	69	39	9	22	3			
			249	16	0	122	43	15	12	22	1	10	29	56	60	18	8	42	6
			251	58	40	111	4	25	13	12	55	1	21	50	63	45	7	37	6
21 20	Duarum in Aculeo Caudæ præcedens sequens	ν ν ν ν ν	253	45	0	116	33	45	15	28	15	3	53	47	65	27	6	54	6
			254	19	0	116	3	15	15	55	15	3	20	8	66	16	6	41	6
			254	37	15	116	14	35	16	12	46	3	29	39	66	17	6	34	7
			255	41	45	114	32	50	17	0	27	1	42	28	65	30	6	8	6
			256	33	45	113	54	25	17	43	57	0	59	54	65	18	5	48	7
21 20	Duarum in Aculeo Caudæ præcedens sequens	ν ν	257	26	15	126	59	15	19	41	16	13	57	14	72	35	5	28	4
			258	8	45	126	49	15	20	15	10	13	44	20	72	32	5	10	4

In Constellatione SAGITTARII.

	Quæ est		258 13 0 115 42 50	19 33 10	2 39 52 14	63 45	4 55	6
			260 4 0 111 41 0	20 46 23	1 30 24 A	65 49	4 26	6
			262 1 15 117 39 55	22 55 1	4 22 42	67 24	3 31	6
	Nebulosa	b	265 14 0 113 44 35	25 38 16	0 19 45	55 30	2 12	5.7
		i	265 18 30 114 12 40	25 43 17	0 47 51	55 42	2 11	7
			265 50 45 107 5 10	26 0 18	6 20 22 B	62 22	1 57	7
	Nebulosa	a	265 58 30 114 13 45	26 19 47	0 47 50 A	55 43	1 55	6
			266 13 30 109 17 50	26 25 42	4 8 20 B	63 22	1 46	7
			266 13 30 114 18 40	26 33 39	0 52 24 A	65 47	1 49	7
1	In Cuspide Sagittæ	γ	266 28 0 120 22 35	26 55 47	6 55 51	69 2	1 43	3

In Constellatione SAGITTARII.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Varia. Astr. R.	Varia. D. & P.	Magnitudo
Prolog.	Tabula.	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	
	Quæ est	266 35 15	113 8 10	26 51 44	0 18 36 B	55 38	1 38	7
5	In fummo Arcu Borealis, 1 ad	268 35 45	114 0 10	28 43 1	0 31 33 A	65 14	0 50	7
		268 49 30	111 5 50	28 54 10	2 22 54 B	64 16	0 43	4
		268 56 0	111 45 0	28 59 32	1 43 43	64 37	0 41	7
	2 ad	269 12 0	110 46 25	29 15 5	2 42 28	64 6	0 34	6
		269 12 30	110 26 0	29 15 26	3 2 42	63 57	0 34	7
		269 33 10	110 36 0	29 34 56	2 53 2	64 0	0 27	7
2	In Manubrio sinistræ Manu	270 15 10	120 53 40	0 13 13	7 24 41 A	69 23	0 3	7
3	In Australi parte Arcus	270 16 15	119 54 20	0 14 12	6 25 21	68 48	0 3	3
		270 54 15	124 28 45	0 45 33	10 59 54	71 28	0 10	3
4	In Boreali parte Arcus Au-	271 44 15	110 39 45	1 38 55	2 48 39 B	64 2	0 31	6
3	stralis	272 12 45	115 32 5	1 59 55	0 4 1 A	66 26	0 41	4
		272 55 30	114 4 0	2 40 15	0 36 39	65 42	0 59	7
		273 24 45	114 12 15	3 15 52	0 45 42	65 47	1 15	7
		273 56 30	114 23 50	2 35 23	0 57 48	65 54	0 56	7
		275 46 10	114 4 0	5 16 0	0 41 20	65 40	2 10	6
7	Ad Marginem Sagittæ præ-	275 33 45	117 15 35	5 50 42	3 54 35	67 18	2 29	5
6	cedens Humerum fini-	276 56 15	112 40 0	6 24 0	0 39 45 B	64 59	2 42	7
	strum	277 49 45	110 37 50	7 19 56	2 39 12	63 58	3 1	6
		278 3 15	112 27 55	7 26 24	0 48 34	64 50	3 9	6
		278 23 30	112 13 55	7 45 55	1 1 30	64 44	3 17	6
8	In Oculo nebulosæ du-	278 52 0	113 4 45	8 9 4	0 9 12	65 7	3 29	5
	plicis præcedens	278 53 0	111 41 40	8 15 9	1 22 3	64 20	3 23	6
6	In sinistro Humero clara	279 0 0	116 37 25	8 3 12	3 23 32 A	66 54	3 28	4-3
6	In Oculo, Nebulosæ	279 6 0	113 0 35	8 22 14	0 12 33 B	65 6	3 33	5
	duplicis sequens	279 45 0	111 1 5	9 6 9	2 9 25	64 9	3 50	
5	Trium in Capite præ-	279 49 45	111 28 5	9 8 52	1 4 12	64 3	3 51	6
22	Trium super Costis sub	280 41 15	120 16 15	9 17 22	7 7 55 A	68 4	4 13	3
	Axilla	281 32 15	112 8 45	10 40 46	0 54 38 B	64 34	4 32	4
10	Trium in Capite Media	281 52 30	118 4 15	10 30 10	5 1 12 A	67 33	4 41	4
21	Trium super Costis Media	282 50 45	111 28 5	11 56 44	1 28 59 B	64 15	5 5	4
11	Trium super Costis ad in-	284 7 45	115 44 35	12 43 6	2 52 55 A	66 15	5 35	5
20	terfespillum	284 53 0	109 27 35	14 2 22	3 17 59 B	63 17	5 55	6
12	Trium in Borea parte Pa-	285 55 45	108 23 10	15 8 20	4 15 43	62 43	6 23	5
13	ludamenti Austrina	285 56 45	108 50 15	15 6 17	3 48 43	62 55	6 21	6
13	Media Trium in Borea	285 56 45	106 29 25	15 21 49	6 8 42	61 56	6 21	6
14	Trium super Costis Media	286 35 30	115 13 35	15 0 19	2 26 17 A	65 49	6 36	5
18	In dextro Humero	286 37 30	114 58 5	15 2 43	2 21 5	65 47	6 35	5
		286 39 40	114 31 15	15 7 46	1 54 26	65 34	6 34	6
		286 57 30	112 20 35	15 39 4	0 12 20 B	64 30	6 47	6
19	In Ancone dextri Bra-	289 18 0	115 31 15	17 24 12	3 1 53 A	65 47	7 38	6
6	chij	289 27 20	115 31 20	17 31 15	3 13 1	65 53	7 45	6
		290 17 30	114 5 25	18 28 4	3 54 4	65 6	8 14	6
15	Obscura sequitur tres	290 45 30	106 57 35	19 53 56	5 5 54 B	61 53	8 17	6
13	Paludamenti	291 12 0	106 48 20	20 20 29	5 11 26 B	61 48	8 27	6

In Constellatione SAGITTARI.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Variet. Afc. R. D. A. P.	Magnitudo.
Procl.	Tel.	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
17 15	Quæ Duarum in Australi parte Paludamenti Australior	f 292 3 45	110 27 55	220 36 41	1 27 2 B	53 22 8 44	6
		293 33 15	109 47 25	22 6 2	1 54 2	62 58 9 21	6
28	De quatuor in Quadrilate- ro ad educationem Caudæ Borei Lateris præcedens	u 294 11 15	117 4 30	21 29 46	5 22 55 A	66 15 9 34	5
30	Australis Lateris præcedens Borei Lateris sequens Duarum in Austrina parte Paludamenti Boreæ De quatuor in Quadrilate- ro ad educationem Caudæ Austrini Lateris sequens	b 294 27 15	117 56 30	21 35 15	4 16 34	60 42 9 39	5
29		a 294 59 30	116 59 5	22 13 16	5 24 44	66 12 9 54	5
16 14		g 295 5 45	106 15 45	24 7 49	5 8 23	65 41 10 38	6
31		c 295 52 15	118 31 30	22 43 30	7 3 48	66 51 10 12	6
		296 9 15	104 27 20	25 27 19	6 44 32 B	60 57 10 22	6
		296 59 45	102 26 25	26 38 1	8 34 40	59 55 10 40	6
		297 3 0	123 29 30	26 29 27	7 31 45	60 13 10 41	6

In Constellatione CAPRICORNI.

4 4	Quæ est In extremo Cornu Anteco- dente	298 41 30	103 16 15	228 6 58	7 27 4 B	60 11 11 1	5
		298 47 45	103 29 5	28 10 28	7 13 18	60 8 11 1	6
1 1	In sequente Cornu Media 1 ad 2 ad	299 48 30	103 14 55	29 11 41	7 15 34	60 0 11 42	6
		299 56 45	112 43 40	27 26 1	2 3 23 A	63 47 11 45	6
8 8	Sub dextro Oculo	300 7 0	103 25 35	29 27 10	7 1 21 B	60 11 51 4	5
2 2		300 12 45	103 27 55	29 32 21	6 58 6	60 2 11 5	5
		300 22 30	110 2 45	28 21 44	0 29 29	62 31 11 53	5
		300 52 0	102 41 40	0 7 9	6 46 51	60 12 7 6	5
3 3	Trium in sequente Cornu Austrina	300 54 0	105 43 15	29 43 57	4 37 27	60 51 12 2 3	5
6 5	Trium in Rostris præcedens	302 23 30	109 11 15	0 23 55	0 56 6	62 10 12 27	0 h
7 7	sequens Austrina	302 47 30	108 47 45	0 51 9	1 14 17	62 0 12 47	6
5 6		303 1 40	109 34 5	0 54 10	0 26 9	62 14 12 54	Obs
		304 59 30	106 10 35	2 28 57	2 19 30	60 47 13 22	6
9 9	Duarum in Cervice Borealis Australior	305 28 40	105 59 55	3 58 41	3 23 26	60 40 13 41	6
10 10		305 35 40	109 11 15	3 20 52	0 15 46	61 52 13 41	6
11 11	Sub dextro Genu	306 54 40	116 20 20	2 50 11	6 53 23 A	61 2 14 10	5
12 12	In sinistro flexo Genu	307 2 10	112 36 20	3 50 59	3 22 34	63 5 14 12	6
		308 17 30	118 2 1	3 37 5	8 55 5	65 5 14 34	6
		309 19 0	109 3 45	6 47 24	0 28 9	61 2 14 57	6.7
		310 29 40	110 12 5	7 34 21	1 51 10	61 50 15 20.6.7	
18 18	Trium in Medio Corpore Boreæ	310 51 0	108 42 15	8 17 2	0 29 37	61 14 15 28	6
19 19	Duarum in Dorso præcedens	311 41 30	111 2 50	8 25 55	2 57 43	62 1 15 46	5
13 13		312 7 50	108 25 50	9 31 40	0 33 0	61 0 15 53	5
		312 13 10	116 12 15	7 50 46	8 3 28	63 52 15 54	6
17 17	Trium in Medio Cor- pore Austrina 2 ad 3 ad	312 41 30	112 24 15	8 52 52	4 31 8	62 23 16 4	6
		312 52 40	111 24 35	9 24 57	3 36 46	61 59 16 8	6
		312 57 0	111 45 25	9 22 7	3 58 9	62 0 16 8	6
16 16	Trium in Medio Corpore sequens	314 29 40	111 54 10	10 47 44	4 29 50	62 1 16 35	6
		314 39 0	106 25 20	12 10 39	0 43 40 B	60 11 16 28	6
		315 8 30	109 15 5	12 2 31	2 7 23 A	61 0 16 46	6
		315 13 40	108 44 5	12 16 0	1 39 3	60 51 16 50	7
20 20	Duarum in Dorso sequens	316 14 30	108 7 15	13 21 50	1 20 13	60 33 17 7	5
		316 28 30	112 8 15	12 33 35	5 17 25	61 50 17 12	6

In Constellatione CAPRICORN.

ORDO	Stella	S T E L L A R U M Denominatio.	Rever. Ora.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Vari. Afc. R.			Vari. D. a P.			Magnitudo.
				0	1	2	0	1	2	30	1	2	0	1	2	1	2	3	1	2	3	
14	14	Quæ Duarum contiguarum sub Ventre præcedens	a	317	13	45	113	43	5	12	36	49	6	57	36 A	62	18	17	23	5		
				317	24	30	112	29	45	13	8	8	5	50	27	61	51	17	27	6		
15	15	Duarum sub Ventre sequens	b	317	45	10	113	7	5	13	15	20	6	31	45	62	0	17	32	6		
				319	21	10	111	26	15	15	10	57	5	22	15	61	15	17	59	6		
				319	21	45	111	35	35	15	8	37	5	31	19	61	18	17	59	6		
21	21	Duarum in Australi pinna præcedens	a	319	55	30	110	49	25	15	52	52	4	56	56	61	c	18	1c	4		
23	23	Duarum in eductione Cau- dæ præcedens	y	320	43	30	108	1	45	17	27	42	2	31	18	60	3	18	23	4		
		De quatuor in Borea parte Caudæ	i ad d	321	4	10	114	37	45	15	42	16	8	53	38	62	5	18	27	6		
		Duarum in Austrina pinna sequens	κ	321	10	10	105	24	c	18	40	49	0	9	13	59	14	18	29	6		
22	22			321	20	0	110	14	55	17	19	5	4	48	36	60	39	18	32	5		
25		De quatuor in extrema Caudæ, Borea	2 ad d	321	32	10	105	47	5	18	53	46	0	37	44	59	18	18	35	6		
				321	46	10	106	8	5	19	0	0	1	1	54	59	23	18	39	6		
28	28		i ad c	322	6	40	100	28	55	21	5	31	4	13	51 B	57	47	18	44	6		
		De quatuor in Borea parte Caudæ Media	2 ad c	322	25	40	100	40	50	21	19	31	3	56	38	57	51	18	49	6		
27	25		λ	322	27	0	102	46	5	20	41	4	1	57	24	58	23	18	49	5		
24	24	Duarum in eductione Cau- dæ sequens	δ	322	29	0	107	29	45	19	13	14	2	32	19 A	59	42	18	51	3		
		De quatuor in Borea parte Caudæ Austrina	μ	322	29	10	103	5	25	20	36	58	1	38	24 B	58	29	18	48	6		
26	26			324	5	30	104	59	5	22	29	12	0	39	10 A	58	52	19	15	5		

In Constellatione AQUARIL.

8	8	Que est Trium super Vestimento Ma- nus sinistrae præcedens	a	305	53	0	90	34	35	8	6	58	18	16	36 B	55	15	13	52	6	
				307	43	0	100	36	5	7	24	6	8	6	41	58	36	14	29	5	4
				307	50	10	96	7	55	8	38	46	12	24	42	57	9	14	30	5	
				308	44	30	96	45	20	9	22	28	11	34	51	57	18	14	48	6	
7	7	Media	μ	308	55	0	96	38	25	9	34	34	11	38	54	57	15	14	51	6	
				308	58	40	100	7	5	8	44	13	8	16	10	58	24	14	54	5	
				310	1	15	100	51	5	9	32	59	7	17	53	58	35	15	13	6	
				310	42	45	104	13	35	9	19	20	3	51	52	59	44	15	27	6	7
				311	0	10	104	42	30	9	28	11	3	19	30	59	52	15	32	6	
				311	1	15	96	39	30	11	37	44	11	5	6	57	12	15	34	6	
				311	2	40	95	53	35	11	51	38	11	49	0	56	56	15	33	6	
				311	54	40	97	0	55	12	23	54	10	30	14	57	16	15	49	6	
6	6	Trium dictarum sequens	i	312	10	10	102	35	45	12	4	13	4	47	48	59	0	16	13	5	
				314	54	30	100	28	20	14	18	30	6	21	43	58	13	16	44	6	
				315	28	10	95	47	5	16	12	10	10	41	41	56	48	16	54	6	
				316	12	0	95	51	5	16	53	23	10	25	12	56	46	17	6	6	
				316	34	15	100	36	35	15	50	33	5	45	41	58	10	17	15	6	
				316	48	10	104	10	30	15	1	16	2	17	3	59	16	17	16	6	
				317	7	40	101	2	15	16	14	35	5	11	33	58	16	17	23	6	
				317	10	0	94	42	c	18	10	20	11	14	10	56	25	17	24	6	

In Constellatione AQUARII.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo.	Latitudo.	Variat. Astr.	Variat. D. a P.	Magnitudo.
Part.	Tela.	o' ' ' "	o' ' ' "	s o' ' ' "	o' ' ' "	o' ' ' "	o' ' ' "	
4 4	Quæ est In sinistro Humero Sub Humero precedente super Costis quasi in Axilla	317 16 c 318 48 c 320 18 10 320 54 50 320 57 10	94 51 30 96 54 15 99 13 5 91 25 c 89 7 45	18 13 15 19 4 2 19 47 16 22 50 57 23 38 27	11 3 19 F 8 38 43 B 5 59 14 B 13 12 28 B 15 21 47 B	50 26 17 57 23 17 57 35 18 55 27 18 54 51 18	26 17 2 17 3 3 18 14 6 28 2 6 28 2 6	6 6 6 6 6
1 1	In Capite	321 35 30 322 52 30 326 18 15	90 6 25 88 43 30 90 51 0	23 56 30 25 39 39 28 15 21	14 13 55 E 15 7 14 P 11 58 21 B	55 6 18 54 45 18 55 16 19	37 6 58 6 46 6	6 6 6
3 3	Infra dextrum Humerum	326 22 c 326 46 45 326 49 c	108 26 c 98 0 c 93 37 9	22 24 57 26 16 22 27 47 19	4 37 29 A 5 44 8 B 9 10 58 E	59 33 19 56 56 19 55 53 19	48 6 5 6 5 5	6 6 5
16 16	In sinistro Femoris vertebra Australis	327 12 45 327 25 10	92 23 5 105 20 55	28 35 40 24 24 1	10 13 14 B 2 3 15 A	55 37 19 58 38 20	59 6 3 4	6 4
2 2	Duarum in dextro Humero lucidior	327 28 c 327 59 30	91 48 20 110 0 5	29 2 16 23 19 51	10 40 33 B 6 27 47 A	55 30 20 59 46 20	4 3 10 6 5	3 6 5
17	In sinistro Femoris vertebra Borea	328 15 10 328 29 30 328 30 30 328 55 30 329 11 45	99 41 30 102 19 10 103 3 50 105 42 5 103 25 c	27 4 33 26 24 14 26 9 58 25 38 49 26 40 30	2 59 48 B 0 26 43 B 0 15 37 A 2 52 39 A 6 49 12 A	57 14 20 57 49 20 58 0 20 58 37 20 59 42 51	14 6 17 6 15 6 20 6 7 8	6 6 6 6 6
13 13	Duarum in dextra Cotyla contiguarum precedens	329 16 30 330 2 45 330 6 30 330 13 10 330 35 30	112 35 45 104 21 15 99 18 30 95 54 35 104 49 0	23 34 22 27 7 35 28 55 44 29 51 55 27 27 46	9 27 45 A 1 59 2 A 2 43 47 B 4 56 30 B 2 36 5 A	60 16 20 58 10 20 57 0 20 56 32 20 58 12 20	27 6 36 7 34 4 40 6 44 6	6 7 4 6 6
14 14	Sequens	330 57 40 331 7 0 331 24 40	99 21 25 113 7 55 92 55 5	29 42 7 24 59 38 22 23 11	2 23 30 B 10 33 45 A 8 14 49 B	56 58 20 60 42 20 55 38 20	48 5 6 49 5 6 4 3	5 6 5 6 3
9 9	In Cubito dextro	331 32 c 331 57 30 331 59 0	116 17 45 105 3 50 96 23 5	24 11 54 28 37 5 21 41 48	13 39 11 A 3 17 42 A 4 49 11 B	60 47 20 58 7 21 56 19 21	55 5 2 6 0 6	5 6 6
10 10 20 19	Trium in Manu dextra Borea	332 21 40 332 25 45 332 33 40	90 10 45 108 17 45 102 46 20	4 16 51 27 53 23 29 58 16	10 29 8 B 6 28 36 A 1 21 25 A	55 6 21 58 47 21 57 35 21	6 5 5 6 7 6	5 6 6
11 11	Trium dictarum precedens	333 13 c 333 25 c 333 23 15	91 35 30 106 9 0 102 14 5	4 34 31 29 32 41 1 3 54	8 51 36 E 4 48 32 A 1 12 33 A	55 22 21 58 14 21 57 25 21	15 4 15 6 18 5	4 6 5
15 15	In dextri Femoris vertebra	333 48 30 334 25 30 334 31 0	102 28 25 112 16 20 93 9 30	1 13 10 11 42 10 5 12 26	1 30 40 A 10 51 42 A 6 55 47 B	57 37 21 59 21 21 55 38 21	22 5 29 5 29 6	5 6 6
12 12	Trium in Manu dextra sequens	334 47 30 334 51 30	109 2 25 91 42 10	29 43 15 6 4 53	7 58 31 A 8 9 42 B	58 40 21 55 21 21	32 6 34 4	6 4
23 22	In effusione Aquæ a Manu precedens	335 25 30 335 28 40 336 41 20	95 48 45 101 37 10 101 42 15	5 6 13 3 2 33 4 7 20	4 7 47 B 1 18 10 A 1 48 50 A	56 6 21 57 8 21 57 2 21	43 5 35 6 52 6	5 6 6
22 21	Duarum in sinist. Tibia Borealis sub Genu.	336 43 10 336 45 30 337 43 0	110 26 c 98 33 45 111 12 45	0 54 55 5 20 5 1 29 54	9 56 24 A 5 6 F 0 42 A	58 37 21 56 30 21 58 38 21	52 6 53 6 1 6	6 6 6

STELLARUM INERRANTIUM

In Constellatione AQUARII.

ORDO Prel.	THE Denominatio.	Ascensio Recta	Distantia à Polo B.	Longitudo.	Latitudo.	Varia, Varia Asc. R. D. à P.	Magnitudo
		0' 1" 2"	0' 1" 2"	5 0' 1" 2"	0' 1" 2"	1' 2" 3"	
15 18	Duarum in dextra Tibia sub Poplite borealior, } 2 ad	337 49 0	105 41 5	3 40 24	5 55 4 A	57 37 22 3 5	
		338 2 40	102 10 45	5 10 46	2 44 36 A	57 3 22 5 6	
24 3	In effusione Manus sequens ad Austrum } 3 ad	338 17 40	105 12 25	4 16 52	5 38 42 A	57 31 22 7 6 5	
		338 38 40	95 55 4	6 56 2	0 3 28 B	56 27 22 12 6	
18 17	Duarum in dextra Tibia Australior } 3 ad	339 6 10	99 13 20	7 14 41	0 23 0 A	56 27 22 15 4	
		339 17 0	103 14 55	5 54 23	4 11 8 A	57 4 22 17 6	
42 41	Aque ultima Fomalhaut 3 ad	339 26 0	103 48 20	5 49 58	4 45 24 A	57 9 22 19 7	
		339 33 30	107 27 35	4 33 49	8 11 17 A	57 44 22 19 3	
25 24	In Flexu sequens, } 1 ad 2 ad 3 ad	339 35 0	107 53 4	4 25 11	8 37 1 A	57 47 22 20 6	
		339 36 0	98 50 25	7 50 34	0 12 44 A	56 22 22 20 6	
39 37	In ultimo Flexu præ- cedens } 4 ad	340 5 0	121 14 45	29 28 59	11 4 54 A	56 7 22 24 2 1	
		340 27 30	96 22 35	9 42 30	1 41 29 B	56 2 22 35 7	
43 32	Borealis ad Austrum ad Sequitur tres contiguas ad (b) Sequitur (c) duarum Au- straliorum, Borea } 1 ad 2 ad 3 ad	341 19 0	98 42 0	9 28 5	0 43 10 A	56 15 22 35 7	
		341 37 0	98 13 0	9 55 3	0 23 0 A	56 9 22 37 7	
27 26	In Flexura ad Austrum In Flexura duarum ad Au- strum Borea } 1 ad 2 ad	342 14 40	99 21 10	10 4 10	1 40 14 A	55 17 22 42 6	
		342 17 0	99 24 35	10 4 59	1 44 15 A	55 18 22 42 7	
29 28	Austrum versus distat, Soli Australior, } 3 ad	342 25 40	99 35 4	10 8 4	1 57 45 A	56 18 22 44 6	
		342 29 30	115 24 40	3 59 44	16 34 34 A	58 33 22 44 6	
43 32	Borealis ad Austrum ad Sequitur tres contiguas ad (b) Sequitur (c) duarum Au- straliorum, Borea } 1 ad 2 ad 3 ad	342 50 40	99 19 55	10 37 3	1 52 34 A	56 12 22 48 6	
		343 13 10	112 50 55	5 40 42	4 29 7 A	58 6 22 49 4	
36 35	Trium deinceps Ordine jacentium, } 1 ad 2 ad 3 ad	343 19 30	114 7 45	5 14 53	15 41 55 A	58 13 22 50 5 6	
		344 33 45	97 42 20	12 48 27	1 1 25 A	55 57 22 58 5	
27 26	In Flexura ad Austrum In Flexura duarum ad Au- strum Borea } 1 ad 2 ad	344 54 30	100 45 50	11 57 22	3 58 3 A	56 15 22 5 5	
		345 11 10	99 24 1	12 43 56	2 49 51 A	56 6 22 3 6	
29 28	Austrum versus distat, Soli Australior, } 3 ad	345 26 30	100 51 45	12 24 17	4 15 45 A	56 14 22 4 5	
		345 42 0	115 8 5	10 58 4	8 18 2 A	56 41 22 5 4	
36 35	Trium deinceps Ordine jacentium, } 1 ad 2 ad 3 ad	345 43 10	101 17 5	12 28 16	4 45 39 A	56 17 22 6 5	
		345 49 40	96 40 20	14 22 28	0 33 14 A	55 45 22 7 6 7	
31 30	Duarum propinquarum præcedens, } 1 ad 2 ad	346 26 15	106 45 0	11 8 2	10 7 57 A	56 46 22 13 6	
		346 40 10	111 46 50	9 8 42	14 46 26 A	57 20 22 12 5	
33 32	Trium in sequenti Flexu Borea, } 1 ad 2 ad	347 26 10	112 20 20	9 35 12	15 34 16 A	57 16 22 16 5	
		348 50 40	112 4 0	10 30 55	16 45 48 A	57 6 22 24 5	
34 33	Trium in sequenti Flexu Media, } 1 ad 2 ad	349 15 30	112 36 50	11 4 19	16 30 21 A	56 59 22 27 5	
		350 55 45	105 56 5	15 20 30	11 1 46 A	56 10 22 36 5	
35 34	Duarum propinquarum sequens, } 1 ad 2 ad	351 22 30	109 43 55	14 9 42	14 40 56 A	56 24 22 40 5	
		351 40 0	106 14 45	15 52 17	11 36 22 A	56 5 22 40 5	
35 34	Trium in sequenti Flexu Austrina, } 3 ad 4 ad 5 ad	352 2 10	109 59 45	14 48 24	15 10 17 A	56 18 22 43 5	
		352 28 40	110 23 50	14 51 40	15 42 36 A	56 16 22 44 6	
34 33	Duarum propinquarum sequens, } 1 ad 2 ad	353 50 20	110 27 55	15 58 18	16 26 59 A	56 3 22 47 6	

In Constellatione PISCIIUM.

Quæ est	339 46 20	90 34 55	11 6 22	7 22 49 B	55 8 22 22 7
	340 53 10	90 41 15	12 6 22	6 51 34 B	55 7 22 21 6

CATALOGUS BRITANNICUS.

21

In Constellatione PISCIIUM.

ORDO		STELLARUM Denominatio.	Ascensio. Recl.	Distantia à Polo B.	Longitudo.	Latitudo.	Varia. Astr. R.	Varia. D. & P.	Magnitudo.	
Pol.	Tych.									
1	1	Quæ est In Ore Piscis præcedentis	341 11 0 342 1 10 343 11 4	91 23 35 87 50 35 89 33 25	H 12 4 48 14 15 56 14 41 18	6 1 9 B 9 3 19 B 7 1 31 B	55 15 22 33 54 47 22 41 55 02 22 49		6 5 6	
		2	2	Duarum in Occipite Australior Borealior	345 16 10 346 8 40	88 24 45 86 18 25	17 3 44 18 42 18	7 16 43 B 8 52 35 B	54 52 23 4 14 39 23 11	4 5-6
				3	6	In Ventre præcedens.	347 45 40 347 50 15	90 26 25 90 35 5	18 34 32 18 35 20	4 26 26 B 4 16 40 B
4	4	Duarum super Costis præce- dens	348 3 30 348 22 40 348 24 15 349 1 0			85 19 15 93 30 5 92 44 25 92 48 5	20 52 27 17 56 47 18 16 15 18 48 28	9 1 58 B 1 22 54 B 2 4 20 B 1 46 36 B	54 38 23 21 55 22 23 23 55 16 23 23 55 17 23 26	5 6 6 6
		5	7	Duarum super Costis sequens Duarum in Ventre sequens	349 33 0 349 55 0 350 8 40	93 58 5 90 24 5 89 37 15	19 15 58 20 34 43 21 5 46	1 24 53 B 3 37 54 B 4 15 24 B	55 16 23 26 55 9 23 29 55 17 23 31	6 6 6
5	7			Duarum super Costis sequens Duarum in Ventre sequens	351 0 20 351 33 20 352 38 40	86 2 45 89 55 45 88 14 5	23 18 38 22 16 36 23 56 55	7 12 12 B 3 25 7 B 4 32 42 B	54 43 23 35 55 23 37 5 54 57 23 41	6 5 5
				Ante Quadrilaterum sub Pisce Australino	353 0 10 353 24 0	94 28 35 90 38 55	21 48 21 23 41 1	1 19 50 A 2 1 47 B	55 16 23 42 55 3 23 42	5-6 6
				Sub Pisce ante Quadrilaterum	354 1 30 354 10 0 354 15 30	88 47 45 70 3 0 94 52 0	24 59 44 2 57 32 H 22 47 44	3 28 57 B 10 32 58 B 2 11 39 A	55 5 23 46 54 7 23 45 55 15 23 46	6 6 6
		Inf. 1		Duarum Borealiorum in Quadrilatero sub Pisce Præcedens	354 18 20 354 49 0	89 37 35 84 39 0	24 55 24 27 22 55	2 36 30 B 6 58 13 B	55 13 47 54 48 23 47	6 6
8	8			In Cauda Piscis præcedens	355 42 10 355 51 0	95 16 35 84 51 20	23 57 34 28 14 55	3 7 49 A 6 22 15 B	55 11 23 49 54 51 23 49	9 5
		Inf. 2		Duarum Boresthorum in Quadrilatero sequens	356 29 10 356 30 30	94 45 15 97 44 25	24 53 4 23 42 36	2 57 45 A 5 42 33 A	55 10 23 51 55 15 23 51	5 5
Inf. 3				Duarum in Australi Latere Quadrilateri præcedens	356 38 40 356 39 40	82 46 15 83 14 20	29 49 12 29 38 4	7 57 50 B 7 31 42 B	54 50 23 51 54 51 23 50	6 5-6
		9		Duarum in Australi Latere Quadrilateri sequens	357 22 0 358 32 0	97 26 55 80 35 15	24 35 38 T 2 25 23	5 46 55 A 9 12 37 B	55 12 23 49 54 53 23 54	4 6
					359 45 40 0 9 40 0 10 0	82 54 15 83 29 15 77 49 5	2 37 16 2 45 8 5 4 61	6 36 3 B 5 54 26 B 5 36 B	55 02 23 54 55 12 23 54 55 02 23 54	6 6 6
					0 22 0 0 25 30 0 58 0	82 51 35 75 23 50 75 28 25	3 11 38 6 13 45 6 46 18	6 24 2 B 13 12 4 B 12 55 3 B	55 07 23 54 55 07 23 54 55 3 23 54	7 6 6
9	10			In Lino prima à Cauda	1 10 10 1 33 45 2 7 30	83 32 15 78 14 30 77 24 25	3 39 15 6 9 48 7 1 6	5 27 28 B 10 9 8 B 16 41 34 B	55 3 23 54 55 8 23 54 55 11 23 53	6 6 6
					2 22 45 2 26 0 2 58 0	89 46 50 84 1 25 72 12 5	2 16 10 4 36 55 9 57 40	6 44 49 A 4 30 42 B 15 6 45 B	55 27 23 53 55 6 23 53 55 22 23 52	6 6 6
					2 58 30 3 2 0 3 41 15	73 49 45 75 16 30 75 40 55	9 16 48 8 43 31 T 9 8 47	13 37 30 B 12 16 56 B 11 39 13 B	55 15 43 52 55 17 23 52 55 22 23 52	6 6 6

STELLARUM INERRANTIUM.

In Constellatione PISCIIUM.

ORDO	STELLARUM Denominatio.	Ascensio Recta.	Distantia à Polo B.	Longitudo.	Latitudo.	Variat. Astr.	Variat. R.D. & P.	Magnitudo.
		0 1 2	0 1 2	0 1 2	0 1 2	1 2 3	1 2 3	
	Quæ est	3 50 45 4 4 30 4 6 0	71 24 55 84 45 35 51 23 5	11 5 11 5 49 21 11 19 37	15 29 4 B 3 11 8 B 15 24 47 B	55 30 55 11 55 32	23 5 23 50 23 52	6 6 6
		5 9 0 5 50 15 5 54 10	76 28 0 70 24 55 70 14 55	10 8 47 13 17 39 13 25 26	10 21 41 B 15 37 12 B 15 44 47 B	55 30 55 48 55 49	23 49 23 48 23 47	7 6 6
		5 55 45 7 34 45 7 42 30	70 17 15 76 12 45 79 43 30	13 25 49 12 26 42 11 8 49	15 42 3 B 9 38 42 B 6 22 25 B	55 49 55 44 55 32	23 47 23 42 23 43	6 6 7
		7 44 30 7 51 0 7 52 30	72 6 50 84 56 20 70 46 0	14 16 36 9 12 22 14 57 38	13 19 58 B 1 31 48 B 14 30 43 B	55 58 55 16 56 6	23 43 23 42 23 42	6 6 7
11 11	Trium deinde in Lino luci- darum præcedens	8 4 0 8 10 0	84 22 50 84 6 55	9 37 31 9 49 17	1 57 28 B 2 9 44 B	55 19 55 20	23 41 23 40	6 4
28 28	Trium parvularum in Ca- pire (Borei Piscis) præ- cedens	8 10 0 8 19 10	74 45 35 63 59 20	13 34 2 18 17 46	10 44 49 B 20 30 43 B	55 51 56 37	23 41 23 41	6 6
27 27	Media	9 32 30 9 49 45	72 32 0 64 29 0	15 43 29 19 23 24	12 17 13 B 19 29 39 B	56 11 56 51	23 37 23 35	6 6
26 26 36 36	1 ad b 1 ad σ	10 16 0 11 29 0 11 21 40	62 41 50 59 52 20 83 46 50	20 33 56 22 53 41 13 1 40	20 57 8 B 3 47 B 1 9 28 B	57 42 57 37 55 29	23 34 23 27 23 27	6 5 6
12 12	Trium in Lino lucidarum Media	11 43 30 12 11 10	83 47 40 76 44 0	13 12 11 16 23 36	1 4 7 B 7 23 22 B	55 30 56 7	23 26 23 24	4 6
29 29	Trium in Pinna costarum post Cubitum Andromæ- dæ præcedens	12 12 50 12 16 15	86 1 55 70 12 15	12 46 46 19 6 0	1 10 55 A 13 21 8 B	55 23 56 46	23 25 23 24	6 5
24 24	Duarum in Ore Piscis sequentis Borealiior.	12 18 30 12 18 40	78 42 50 59 29 25	15 43 21 23 46 30	5 31 13 B 6 23 B	55 59 57 49	23 22 23 24	6 5
30 30	Trium in Pinna costa- rum Media,	12 25 40 12 45 0 12 50 10	86 44 55 59 39 15 70 55 25	12 41 48 24 4 18 19 18 25	1 55 30 A 22 47 51 B 2 28 46 B	55 17 57 56 56 44	23 24 23 22 23 20	6 6 6
14 14 31 31	Duarum parvularum sub tribus in Lino lucidis in flexu Boreæ Trium in Pinna costa- rum sequens,	13 6 30 13 19 10	86 0 15 72 0 30	13 36 45 19 17 50	1 30 14 A 11 18 9 B	55 22 56 43	23 20 23 19	5 6
25 25	Duarum in Ore Piscis se- quentis Austrina	13 31 15 13 39 30	60 14 30 61 35 35	24 27 32 23 58 26	21 59 6 B 20 42 19 B	58 4 57 56	23 17 23 16	6 5
34 34 33 33	In sequente Pinna juxta Caudam Duarum in ventre Austrina	13 42 10 14 15 10	70 37 47 67 4 15	20 11 43 22 8 31	12 25 29 B 15 29 2 B	56 55 57 22	23 17 23 13	5 5
13 13	Trium deinde in Lino lu- cidarum sequens	14 23 30 14 25 20	84 4 45 75 31 10	15 32 13 18 53 15	0 13 25 A 7 39 27 B	55 36 56 29	23 13 23 12	4 7
15 15	Duarum parvularum in Flexu sub tribus in Lino lucidis Austrina	14 39 0 15 28 0	84 39 55 88 2 5	15 32 53 15 0 4	0 51 50 A 4 17 13 A	55 32 55 13	23 11 23 5	7 6

In Constellatione PISCIIUM.

ORDO	Pole	Tych.	STELLARUM Denominatio.	Regr. Clus.	Ascensio Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Varia. Ast. R. D. d. P.			Magnitudo
					0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	
32	32	35	Quæ Duarum in Ventre Piscis borei, Borea est	o	15	36	50	64	22	55	24	27	10	17	26	56	58	0	23	5
				l	16	0	30	62	53	50	25	25	21	18	39	53	58	14	23	6
					16	47	30	73	48	45	21	40	54	8	20	43	56	55	22	7
23	23		Borea Trium ordine jacen- tium in Lino boreo & in extrema Cauda	p	17	24	0	72	27	40	22	45	12	9	22	3	57	10	22	5
					17	30	10	72	23	10	22	52	27	9	23	58	57	13	22	5
					17	54	10	86	15	15	17	56	0	3	34	52	55	27	22	7
					18	13	30	84	19	50	18	57	55	1	54	52	55	43	22	6.7
					18	17	40	73	15	55	23	14	29	8	17	49	57	10	22	6.7
16	16		Trium post flexum Lini præcedens	μ	18	29	30	85	28	25	18	46	40	3	4	25	55	36	22	5
22	22		Trium media in Lino boreo	π	18	44	30	76	16	20	22	29	20	5	21	7	56	47	22	4
					19	36	30	79	2	30	22	13	33	2	28	5	56	28	22	6
21	21		Trium dictarum Austrina	π	19	48	0	76	56	20	23	11	35	4	20	47	56	48	22	6
					20	10	40	79	27	45	22	35	18	1	52	5	56	29	22	5
					20	38	30	74	58	20	24	41	29	5	51	46	57	12	22	6.7
					20	40	0	77	19	15	23	50	6	3	40	32	56	45	22	6.7
					20	45	0	75	11	30	24	42	32	5	37	12	57	11	22	6.7
17	17		Trium post Flexum Media	ν	21	20	10	86	6	5	21	10	37	4	43	12	55	36	22	5
					21	25	10	71	15	30	26	47	42	9	1	34	57	50	22	6.7
					22	0	30	68	28	10	28	22	53	11	24	8	58	25	22	6
					22	1	0	71	29	0	27	14	27	8	36	20	57	52	22	8
20	20		In Lino boreo a connexu præcedens	o	22	16	30	82	25	25	23	24	40	1	38	58	56	12	22	5
18	18		Trium post Flexum sequens	ε	24	23	30	88	22	0	23	11	18	7	55	45	55	16	22	6
					26	1	0	88	24	35	24	42	5	8	35	5	55	19	22	6.7
19	19		In Nodo duorum Linorum	α	26	30	45	88	45	20	25	2	23	9	5	10	55	14	22	3

F I X A R U M

IN

CONSTELLATIONIBUS

EXTRA

Zodiacum ad Austrum Sitis.

In Constellatione CETI.

ORDO	Pole	Tych.	STELLARUM Denominatio.	Regr. Clus.	Ascensio Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Varia. Ast. R. D. d. P.			Magnitudo
					0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	
Inf. 1			Quæ est	g	355	20	30	107	33	55	18	37	9	14	14	25	55	43	23	48
				g	356	57	30	109	3	55	19	25	37	16	14	22	55	33	23	51
				g	357	9	30	102	14	10	22	28	40	10	5	0	55	20	23	52

In Constellatione CETI.

ORDO	STELLARUM Denominatio.	Ascensio Recta.	Distantia à Polo B.	Longitudo.	Latitudo.	Variat. Asc. R. D. & P.	Variat. D. & P.	Magnitudo.
Pol.	Trih.	0 1 11	0 1 11	0 1 11	0 1 11	1 11 2 11	1 11 2 11	
	Quæ est	358 13 10	94 16 30	H 26 39 45	3 12 42 A	55 7 23 52	6	
Inf. 2		358 20 10	94 10 25	26 48 35	3 9 54	55 9 23 52	6	
Inf. 3		358 52 0	107 10 35	21 57 12	15 16 3	55 14 23 54	5	
21 17	Duarum in extremis Caudæ Pinnis Boreæ	b 359 43 0	110 39 20	21 12 12	18 45 54	55 11 23 53	5	
		0 54 0	100 33 0	26 35 0	10 1 30	54 59 23 54	3	
		1 44 40	103 56 10	25 56 22	13 27 15	54 53 23 54	6	
		2 41 40	91 46 25	T 1 45 50	2 42 0	55 1 23 54	6	
		3 30 30	92 50 10	2 5 16	3 59 56	54 57 23 51	6	
		3 33 0	95 40 45	0 59 7	6 37 17	54 55 23 52	6	
		4 49 30	95 18 35	2 18 26	6 47 28	54 51 23 45	6	
		4 54 0	95 12 50	3 56 51	3 58 56	54 56 23 48	6	
22 18	In extremitate Australis Caudæ pinnæ	5 34 0	92 13 20	4 13 26	4 15 16	54 55 23 48	6	
		6 59 50	109 41 40	H 28 13	2 20 46 52	54 22 23 43	3	
19	Boreæ præcedentis Late- ris quadrilateri in parte H ^a posteriore,	1 ad 7 8 30	102 19 15	T 1 33 31	14 7 45	54 26 23 44	5	
20	Australis præcedentis Lateris quadrilateri,	2 ad 7 28 20	104 34 5	0 54 30	16 18 39	54 15 23 43	6	
		8 39 20	102 19 35	2 57 0	14 44 14	54 15 23 38	5	
17	Boreæ sequentis Late- ris quadrilateri,	3 ad 9 18 20	92 50 20	7 25 18	6 17 50	54 50 23 36	6	
		9 40 0	100 25 35	4 40 46	13 24 8	54 18 23 34	6	
18	Australis sequentis Late- ris quadrilateri,	4 ad 10 7 30	102 57 25	4 2 32	15 53 50	54 47 23 33	5	
		10 48 20	103 3 45	4 37 39	16 15 51	54 12 23 30	5	
		11 17 30	86 0 55	11 56 19	0 48 29	55 20 23 28	6	
		11 53 0	96 30 5	8 20 24	10 41 0	54 28 23 25	6	
		12 0 0	90 18 30	10 0 38	5 2 10	54 58 23 30	6	
		12 31 20	101 38 45	6 49 9	15 38 59	53 58 23 29	6	
		12 38 10	101 30 50	6 58 49	15 34 29	53 57 23 23	6	
		13 1 30	89 38 25	12 7 10	4 49 16	55 2 23 20	6	
16 16	Duarum in parte Corporis Caudæ vicina præcedens	13 3 0	101 26 5	7 23 52	15 39 56	53 58 23 21	6	
		13 15 30	101 50 35	7 25 18	16 7 16	53 54 23 18	3	
		13 40 0	100 33 55	8 20 10	15 6 47	54 0 23 17	6	
		13 40 30	89 12 55	12 53 10	4 40 57	55 3 23 16	6	
		14 2 10	93 54 30	11 22 38	9 8 43	54 37 23 14	6	
		14 10 40	89 10 35	13 21 58	4 50 31	55 6 23 14	6	
		14 18 0	98 26 35	9 48 31	24 58	54 10 23 14	6	
		14 42 0	99 36 25	9 42 41	27 59	54 2 23 11	5	
		14 46 0	92 37 20	12 23 55	8 14 45	54 43 23 11	6	
		15 13 30	94 8 40	12 23 25	9 49 33	54 34 23 8	6	
		15 17 0	93 54 50	12 32 10	9 38 12	54 34 23 8	6	
		15 32 0	99 18 40	10 35 55	14 41 39	54 0 23 6	6	
		16 0 45	92 9 5	13 54 25	8 17 42	54 46 23 1	6	
		16 42 0	92 5 15	14 34 28	8 30 6	54 47 22 57	6	
		17 4 50	99 37 55	11 55 6	15 35 44	53 50 22 53	6	
15 15	Dictarum duarum sequens	17 8 0	99 48 15	11 53 52	15 46 30	53 48 22 53	3	
		17 36 0	106 13 25	9 36 36	21 50 7	52 56 22 50	5	
		17 54 0	104 40 55	10 34 17	20 32 40	53 7 22 49	6	
		18 40 0	113 14 45	7 21 44	28 57 56	51 47 22 43	6	
		19 52 30	107 16 45	11 17 50	23 41 24	52 80 22 33	6	
		20 13 30	106 59 0	T 11 45 30	23 33 56 A	52 31 22 29	6	

In Constellatione CETI.

ORDO		STELLARUM Denominatio.	Signi Obs.	Ascensio Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Varia. Varia. Af. R. D. J. P.			Magnitudo.
Procl.	Tych.			0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	
12	13	Quæ est Trium in Corpore Media	T	21 20 15	86	6	0	13 35 48	24 57 52	52 36 22	20 6								
			X	22 25 20	107 35	0		17 0 46	20 37 12	52 38 22	11 3-4								
				23 35	102 14	25					5								
14	14	Trium in Corpore Borea, 1 ad	2	23 52	0	80 30	25	25 24 42	0 26 39	56 34	21 57	6							
13	13	Trium in Corpore Au- strina, 1 ad	5	24 3	0	101 55	15	17 36 47	20 21 19	53 0	21 56	3							
				25 32	30	114 3	25	13 33 32	32 3 28	50 27	21 39	4							
				26 18	0	112 20	45	15 8 32	30 47 52	50 42	21 32	5							
				26 19	30	93 36	0	23 3 55	13 32 34	4 21	21 31	6							
			2 ad	26 21	0	112 35	35	15 4 15	31 2 29	50 38	21 31	4-5							
				26 50	15	91 23	45	24 22 44	11 39 53	54 43	21 25	6							
				26 59	50	91 51	30	24 21 32	12 9 13	4 39	21 23	7							
				28 22	0	93 49	40	24 56	2 14 29	54 14	21 7	6-7							
				28 43	30	93 18	45	25 28	16 14 8	54 21	21 1	6							
				28 45	45	82 54	0	29 15	5 4 24	56 25	21 2	6							
7	7	Præcedit 6 ^m (μ) quasi in iuba, 1 ad	2	29 9	0	82 37	40	29 42	36 4 17	56 29	21 0	6							
				29 14	15	93 52	5	25 45	22 14 50	54 14	20 58	6							
				30 22	0	97 52	45	25 20	13 18 58	53 20	20 44	6							
			0	30 55	30	94 24	35	27 11	15 15 56	54 20	36 3-2								
				31 32	0	91 3	10	28 59	42 13 0	54 45	20 28	6							
8	8	In Quadrilatero Pectoris præ- cedentis Lateris Borea 2 ad	2	31 36	0	92 19	40	28 36	4 14 14	54 27	20 30	6							
				32 19	45	94 12	40	28 37	36 16 15	54 3	20 18	6							
				32 44	30	103 42	45	25 22	10 25 15	51 52	20 13	4							
				32 55	30	82 57	35	8 3	7 55 5	56 35	20 11	4-5							
				33 14	45	113 14	31	21 37	0 34 14	49 23	20 9	6							
9	9	In Quadrilatero Pectoris præ- cedentis Lateris Austrina 2 ad	2	34 6	15	92 26	20	8 0	59 15 12	54 26	19 54	5-6							
				34 21	0	106 37	35	25 46	2 28 32	51 0	19 52	4							
5	5	Ad supercilium Oculi	1	34 51	0	99 14	35	29 13	58 21 50	52 40	19 43	6							
				34 54	30	85 46	20	8 4	3 9 12	56 0	19 44	4-5							
				34 56	45	94 54	50	0	55 37	17 49	52 47	19 41	6						
4	4	Præcedens trium ad Genam	2	35 11	0	99 12	40	29 34	34 21 55	52 45	19 39	6							
				35 31	30	94 46	10	8 1	32 55 17	53 42	19 34	6							
				35 55	0	91 2	25	3 14	26 14 29	54 44	19 29	3							
10	11	In Quadrilatero Pectoris se- quentis Lateris Borea	1	36 9	30	103 12	35	29 0	15 26 0	51 41	19 25	3							
				36 20	45	92 3	0	8 3	18 35 15	54 20	19 22	6							
3	3	Media in Ore	1	36 28	30	80 35	40	7 14	22 4 48	57 21	19 21	6							
6	6	In Capillamento	1	36 49	30	88 6	5	5 7	3 12 1	55 26	19 16	3							
				37 3	20	81 13	45	7 34	50 5 35	57 12	19 12	4							
				37 4	0	78 53	0	8 20	32 3 22	57 46	19 12	6							
11	10	In Quadrilatero Pectoris se- quentis Lateris Austrina	1	37 21	0	105 11	45	29 24	53 28 16	51 2	19 7	4-5							
				37 40	30	109 54	30	27 44	30 32 46	49 43	19 2	8							
				40 46	50	82 21	45	8 10	45 6 7	57 5	18 12	4							
1	1	In Nare	1	41 31	50	87 9	35	9 59	15 12 36	55 46	18 0	2							
2	2	Trium in Rostrum sequens in extrema Maxilla	1	41 32	0	86 54	25	10 5	8 12 22	55 50	18 0	6							
				44 15	20	92 23	30	11 2	13 18 25	54 16	17 17	6							
				45 38	45	92 5	55	12 31	31 18 33	54 21	16 53	6							
				45 47	0	87 48	5	13 57	58 14 29	55 39	16 49	5							
				46 14	0	87 28	40	8 14	30 25 14	55 45	16 40	4							

In Constellatione ERIDANI.

ORDO	Stellarum Denominatio.	Ascensio Recta	Distantia à Polo B.	Longitudo.	Latitudo.	Vari. Ast.	Vari. R. d. d. P.	Magnitud.
Prole	Temp.	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
18	Quæ in Reflexu fluvii tangit	37 39 50	59 54 25	27 43 50	32 46 3 A	49 45 14	3 4	
19	pectus Ceti, 1 ad	39 15 0	112 18 15	28 17 41	35 32 44	48 50 18	36 4	
16 11	Hanc sequitur, 2 ad	40 20 0	100 9 35	4 24 50	24 33 38	52 15 18	21 3	
	De quatuor (in distu 5°) omnes præcedit	40 53 30	115 7 45	28 40 53	38 43 48	47 43 18	10 6	
		41 2 45	93 43 35	7 23 41	18 42 23	53 56 18	9 6	
		41 3 45	114 52 25	28 59 23	38 33 16	47 46 18	7 6	
		41 19 45	94 8 50	7 31 58	19 12 50	53 53 18	5 6	
5	De quatuor (in distu 5°) proxime sequitur 16 ^{ta} (x)	41 29 20	98 54 30	6 2 44	23 45 20	52 31 18	3 6	
		41 53 20	98 56 10	6 26 39	23 54 37	52 30 17	55 5	
		42 16 20	98 51 10	6 52 9	23 57 16	53 31 17	49 4	
20	Trium Ordine sequentium (in distu 7°) præcedens	42 23 0	114 51 40	0 25 0	39 0 1	47 33 17	44 3 4	
		44 43 30	120 13 35	0 11 14	44 45 1	45 13 17	5 3	
14 13	De quatuor (in distu 5°) sequens	45 12 20	100 0 5	9 29 25	25 57 22	52 0 16	58 3	
		45 24 20	100 19 25	9 35 13	26 19 46	51 55 16	55 6	
		46 9 50	113 39 5	5 6 36	39 8 28	47 27 16	39 6	
21	Trium Ordine sequentium (in distu 7°) Media.	46 26 0	112 54 45	5 45 3	38 32 17	47 43 16	36 4	
		48 49 0	96 10 12	14 30 20	23 22 27	53 5 15	54 4 5	
13 10	De quatuor (in distu 4°) omnes præcedit	49 35 30	100 32 5	13 55 20	27 46 30	51 36 15	37 3 4	
		50 2 0	112 41 55	9 51 32	39 28 14	47 22 15	28 4	
		50 33 50	108 31 5	12 8 57	35 40 15	48 50 15	20 5 6	
		50 56 15	96 38 50	16 34 14	24 25 20	52 54 15	15 6	
		51 20 0	96 14 15	17 6 37	24 8 18	52 57 15	6 5 6	
12 9	De quatuor (in distu 4°) proxime sequitur 13 ^{ta} (s)	52 6 30	100 50 15	16 30 56	28 46 16	51 23 14	51 3 4	
		52 12 40	92 10 25	19 11 36	25 27 17	54 17 14	47 5	
		52 17 30	91 18 4	19 30 50	19 38 34	54 23 14	47 6	
11 8	De quatuor (in distu 4°) proxime præcedit 10 ^{ta} (x)	52 53 0	103 5 55	16 37 28	31 9 15	50 34 14	33 4	
23	De quatuor in quadrilatero præcedentis Lateris Boreæ	53 24 0	114 11 25	13 4 15	41 53 9	46 22 14	21 4	
24	Austrina	53 36 0	114 51 35	13 0 52	42 34 32	46 6 14	19 6 5	
		54 18 20	96 1 0	20 18 16	24 42 25	52 57 14	5 6 7	
		54 21 20	96 19 5	20 16 20	25 0 38	52 51 14	5 5 6	
		54 36 20	96 14 15	20 33 37	24 59 47	52 51 14	0 5 6	
		54 41 30	93 54 20	21 17 38	22 45 43	53 41 13	58 4 5	
19								
25	De quatuor in quadrilatero sequentis Lateris præcedens	55 8 30	115 33 15	14 31 20	43 40 50	45 36 13	49 4 5	
		55 54 0	104 25 5	19 31 34	33 13 35	49 54 13	32 2	
		56 28 30	92 27 30	23 32 24	21 47 28	54 8 13	22 5	
26	De quatuor in quadrilatero sequentis Lateris sequens	56 42 0	114 55 15	16 38 37	43 30 44	45 46 13	14 4	
		58 49 30	97 45 55	24 40 24	27 29 56	52 12 12	32 6	
9 15	Trium (in 3 ^o distu) sequentium media	59 11 40	97 40 45	25 5 51	27 30 0	52 14 12	24 3 4	
14	Australissima	59 56 0	101 3 35	25 0 50	30 57 28	50 56 12	7 5	
8 16		60 15 20	98 10 15	25 7 45	28 13 3 A	52 0 12	0 5	

In Constellatione ERIDANI.

ORDO		STELLARUM Denominatio.	Bayer. Char.	Ascensio Recta		Distantia a Polo B.		Longitudo.		Latitudo.		Variat. Afr. R. D. d. P.		Magnitudo.							
Pol.	Trid.			0	1	0	1	0	1	0	1	1	1								
30	7 17	Quæduarum (in 8 ^o ductu) post- flexum præcedit	E	61	31	30	124	34	5	18	7	53	58	54	4						
		Trium (in 3 ^o ductu) Borea- lissima		62	4	20	94	29	45	28	59	47	25	1	53	21	11	21	4		
29		Duarum (in 8 ^o ductu) post- flexum sequitur		63	5	0	124	44	35	20	6	30	54	33	15	40	14	10	57	5	
6 6		(In ductu 2 ^o) præcedens	E	63	10	0	89	21	0	11	15	15	20	11	27	53	14	10	58	5	
				64	2	30	90	45	0	1	53	24	21	43	53	4	10	37	5		
				64	42	45	97	25	40	1	12	32	28	24	50	52	12	10	24	5	
				64	49	45	98	55	5	1	0	31	29	53	52	51	38	10	20	4	
				65	13	0	94	0	5	2	29	15	25	8	39	53	3	10	12	4	
				65	17	50	89	40	20	3	35	3	20	54	6	55	8	10	83	5	
27		Duarum contiguarum (ab 8 ^o ductu) ad Ortum } 1 ad	b	65	19	0	120	24	45	8	25	8	2	50	56	43	42	13	10	7	4
28		Supra 6 ^{am} (1) Duarum contiguarum ad Ortum (ab 8 ^o ductu) } 2 ad	c	65	30	50	93	7	55	11	2	59	3	24	20	37	53	51	10	5	
		Austrina,	b	65	52	30	121	13	10	8	25	32	21	51	51	1	41	46	9	55	3
				66	0	30	104	56	25	11	0	56	10	36	1	48	49	11	9	51	3
				66	44	0	110	18	0	0	23	41	41	25	3	46	51	9	35	3	
				67	11	20	99	24	45	3	33	10	30	49	18	51	20	9	27	6	
				67	18	30	99	2	10	3	45	58	20	28	21	51	29	9	24	6	
5 5		(In ductu 2 ^o) sequens	μ	67	31	0	93	51	10	5	0	53	24	24	13	53	20	9	19	4	
				68	26	30	107	32	10	3	11	24	20	1	49	51	39	9	36	5	
				68	40	0	106	54	30	3	36	38	28	27	13	48	14	8	51	6	
				69	4	30	106	47	10	4	7	46	38	24	20	48	16	8	41	6	
4 4		Duarum 5 ^{am} (μ) sequentium? (in 2 ^o ductu) præcedens	ω	69	25	30	96	0	45	6	43	3	27	50	40	52	38	8	34	5	
			b	70	17	10	95	41	40	7	43	46	27	30	49	52	46	8	16	6	
				71	18	30	100	45	25	7	59	51	32	49	13	50	43	7	49	6	
				71	24	0	103	1	50	7	41	0	55	4	52	49	47	7	48	6	
3 3		In Flexu 2 ^o	↓	71	36	40	97	39	55	8	53	2	29	48	20	51	56	7	43	5	
2 2		In Flexu ante Crus Orionis	b	72	31	50	95	6	35	10	41	18	27	16	56	53	3	7	14	6	
				73	9	30	95	31	20	10	57	20	27	53	48	52	45	7	3	3	
			z	73	21	30	94	53	35	11	15	40	27	17	50	53	1	7	1	6	
1 1		In Origine Fluvii	λ	73	35	0	99	11	15	11	0	52	55	21	34	10	51	19	6	56	

Ptolomeo 17^{am} (σ) in Cælis non apparuit Anno 1691 exunte, nec incunte 1692.

In Constellatione ORIONIS.

22 25	Quæ 6 ^{am} in Exuviis finitæ Manus		68	15	15	83	36	40	II	7	32	35	15	25	30	A	57	28	9	5	4
20 23	5 ^a in Exuviis	1 ad π	68	25	0	81	40	25		8	0	53	13	31	20		58	16	8	58	4
23 25	7 ^a in Exuviis		68	40	45	84	57	55		7	46	0	16	48	55		56	58	8	55	4
17 19	1 ^a in Exuviis & Borea- lissima,	1 ad 0	68	45	0	76	18	45		9	9	15	8	16	7		60	24	8	51	4
			69	18	40	88	2	40		7	46	9	19	57	15		55	46	8	37	6
19 21	3 ^a in Exuviis	2 ad λ	69	23	30	79	8	15		9	22	11	11	9	17		59	16	8	36	6
21 22	4 ^a in Exuviis	2 ad π	69	27	15	80	23	15		9	14	55	12	24	2		58	45	8	35	6
24 26	8 ^a in Exuviis	2 ad π	69	32	0	88	6	10		8	9	40	20	2	42		55	46	8	33	4
18 20	2 ^a in Exuviis	2 ad 0	69	44	0	77	1	20		10	0	34	9	6	31		60	12	8	30	4
25 27	Reliqua in Exuviis 9 ^a	1 ad γ	70	37	30	88	48	20		9	11	42	20	53	51		55	28	8	7	4
			71	43	0	75	4	25		12	11	56	7	25	55		61	31	7	42	5
			72	39	0	81	6	50		12	21	32	13	32	20		58	34	7	20	6
			72	41	0	80	57	0	II	12	24	47	13	32	51	A	58	42	7	19	6

In Constellatione ORIONIS.

ORDO	STELLARUM Denominatio.	Bayer. Ob.	Ascensio Recta.			Distantia a Polo B.			Longitudo.			Latitudo.			Varia. Afc.R.D.			Varia. J.P.			Magnitudo
			0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	1	2	3	
52	Quæ est		72 44 30			81 56 5			12 20 45			14 22 37			58 14			7 18			5
51		2 ad	72 59 30			74 50 55			13 27 34			7 21 32			61 13			7 11			5
			73 5 30			80 36 40			12 51 58			13 5 24			58 50			7 9			6
46	De quatuor in Crate	1 ad	74 16 0			87 33 10			13 13 48			20 7 24			56 0			6 40			5
50	Pectoris,		74 45 0			79 3 0			14 42 26			11 43 44			59 32			6 30			5
35	In sinistro Pede splendida	β	74 55 0			98 36 0			12 30 03			10 11			51 31			6 25			1
36	Hæ Borealis supra Talum, in Tibia		75 38 0			97 13 5			13 30 26			29 52 52			52 6			6 6			4
			75 45 10			87 46 5			14 46 42			20 30 1			55 55			6 5			6
44			76 28 40			90 43 5			15 13 36			23 31 19			54 41			5 45			5
42		m	76 37 50			86 48 5			15 48 42			19 37 39			56 18			5 42			6
3 5	In sinistro Humero	γ	77 8 20			83 58 15			16 37 33			16 51 30			57 30			5 30			2
45			77 10 0			88 28 55			16 12 26			21 21 7			55 37			5 30			5
			77 10 20			88 48 35			16 10 46			21 40 44			55 29			5 30			6
43		2 ad	77 10 30			91 13 55			15 55 49			24 5 24			54 31			5 31			6
29	In Manubrio Ensis extre-	η	77 13 40			92 43 25			15 49 47			25 34 47			53 53			5 29			3
37	mo		77 14 30			98 7 55			15 13 47			30 57 44			51 39			5 27			5
16	Sub sinistro Calcaneo extra	↓	77 39 0			87 13 5			16 50 50			00 8 18			56 9			5 19			5
18	De quatuor in Crate pectoris, quasi in recta Linea præcedens		78 31 30			91 22 35			17 23 22			24 21 29			54 26			4 58			6
4 6	Sub Humero sinistro in con-	δ	78 32 30			84 19 55			18 2 50			17 20 25			57 20			4 58			5
	sequencia		78 44 10			86 59 15			18 1 10			20 0 9			56 14			4 52			6
15	Duarum præcedentium 13 ^{um}	ε	79 2 30			90 34 25			18 1 28			22 36 7			54 48			4 45			2
26	(ω) antecedens		79 7 50			75 57 40			19 19 28			9 2 31			50 52			4 44			6
28	Trium in Cingulo præcedens	ν	79 13 30			97 33 45			17 34 53			35 12			51 55			4 39			4
34	Duarum sub Ensis Mucone præcedens	φ	79 26 30			80 45 55			19 15 51			13 51 19			58 52			4 35			5
14	Præcedit 13 ^{um} (ω) proxime	λ	79 29 0			86 29 35			18 51 6			19 34 10			56 26			4 33			6
16	In Capite Nebulosa		79 30 50			80 19 15			19 22 18			13 25 2			59 0			4 34			4
3 3		2 ad	79 57 30			80 55 20			19 46 28			14 2 58			58 49			4 23			5
31	Trium contiguarum in	θ	79 59 50			95 37 25			18 37 58			28 42 45			52 43			4 20			6
33	longo Ensis media,		80 1 0			95 4 45			18 42 11			28 10 17			52 54			4 21			5
30	Borea	1 ad	80 1 40			95 38 55			18 39 50			28 44 23			52 40			4 20			4
32	Trium contiguarum in En-	ι	80 3 30			96 9 5			18 39 17			29 14 37			52 28			4 18			4
34	se Austrina		80 5 10			95 5 55			18 46 48			28 11 45			52 53			4 19			5
27	Trium in Cingulo media	ε	80 7 10			91 26 45			19 7 44			24 33 23			54 27			4 20			2
13	De quatuor in Crate pecto-	ω	80 42 0			86 6 5			20 9 56			19 16 3			56 38			4 4			5
15	ris sequens		80 47 40			92 49 25			19 45 41			25 58 47			53 50			4 2			4
41	Ultimam Cinguli præcedit ad	σ	80 59 15			97 25 25			19 35 25			30 34 50			51 58			3 56			5
33	Austrum		81 17 30			92 8 45			20 21 45			25 20 17			54 8			3 49			2
28	Duarum sub Ensis Mucone	δ	81 38 10			88 42 55			20 58 49			21 56 12			55 33			3 37			5
36	sequens		82 49 40			82 42 5			22 32 37			16 59 15			57 38			3 11			6
38	Trium in Cingulo sequens	ζ	83 16 15			99 49 15			22 3 41			33 7 6			50 56			2 59			3
47			84 0 50			69 49 45			22 24 23			3 11 44			63 46			2 42			5
11	Sub dextro & sequente Ge-	κ																			
13	nu																				
	Duarum in Fuste præ-	λ																			
	cedens,																				

In Constellatione ORIONIS.

ORDO	STELLARUM Denominatio.	R. Asc. Clu.	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Varia. Afc. R.			Varia. D. d. P.			Magnitudo.
			0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	1	2	3	
	Quæ est <i>Supra</i> x		84	5	10	97	38	25	11	23	9	32	30	58	58	A	51	50	2	59	6
12	In fuisse sequens.	2 ad	84	5	10	88	16	40	23	38	10	31	37	54	55	43	2	38	6		
			84	9	30	70	21	45	24	29	13	3	44	1	62	22	2	38	5		
2	In dextro Humero lucida rutilans	α	84	35	30	82	41	45	24	25	0	16	4	26	58	5	2	25	1		
			85	34	15	88	14	15	25	14	10	21	38	50	55	45	2	1	6		
49	In dextri Brachii Ancone	μ	85	42	50	89	31	15	25	20	41	22	56	4	55	12	1	58	6		
5	In fuisse adhuc se- quens,	3 ad	86	19	30	80	23	55	26	16	5	13	50	1	59	5	1	44	4		
			86	23	10	69	54	15	26	36	2	3	20	40	63	46	1	45	6		
			86	31	30	84	36	35	26	21	38	18	2	56	57	15	0	5	6		
12	Duarum in fuisse sequens,	5 ad	87	1	40	70	21	15	27	11	40	3	48	31	52	35	1	27	6		
			87	8	15	69	54	10	27	18	25	3	21	33	62	49					
			87	8	45	85	52	5	26	59	0	19	19	18	56	47	1	2	6		
	Austrini Lateris Quadri- lateri in dextro Manu præ- cedens est	γ	87	28	0	75	14	35	27	31	17	8	42	16	61	18	1	1			
			88	25	0	70	11	45	28	30	25	3	20	59	63	36	2	5	6		
10	Borei Lateris dicti Quadilateri præ- cedens,	1 ad	88	32	30	73	50	55	28	34	14	7	19	30	61	57	0	51	6		
7	Australis Lateris Quadri- lateri sequens	ε	88	33	30	75	46	15	28	34	1	9	14	49	61	2	0	49	4	5	
			89	9	30	70	47	10	29	12	10	4	16	2	63	20	0	33	6		
9	Borei Lateris Quadri- lateri sequens,	2 ad	89	23	0	73	48	35	29	24	9	7	17	31	61	57	0	27	6		
		1 ad	89	34	40	77	24	15	29	34	49	10	52	13	60	20	0	25	6		
6		2 ad	89	45	10	77	41	30	29	45	12	11	10	30	60	15	0	20	6		
			90	0	0	79	59	25	0	0	0	13	28	25	59	14	0	13	6		
			91	52	30	84	37	0	1	57	50	18	5	18	57	18	0	37	6		
			92	52	0	89	37	0	3	6	57	23	4	8	55	13	0	58	6		
			92	53	45	90	7	20	3	9	35	23	34	26	55	3	1	0	6		

In Constellatione LEPORIS.

6	6	Quæ est		72	24	30	113	16	5	11	6	44	245	20	17	A	45	12	7	24	9		
1	1	In Pede anteriore sinistro	κ	73	7	0	112	49	10			7	45	6	45	0	18		45	22	7	7	4
1	1	Boreæ præcedentis Lateris	1	74	29	0	102	17	5			11	27	20	34	45	39		50	1	6	32	5
2	2	Quadilateri ad Aures	κ	74	45	0	103	20	25			11	35	43	35	50	25		49	32	6	29	5
3	3	Austrina præcedentis Late- ris Quadilateri	μ	74	46	20	106	36	15			11	4	35	39	5	28		48	8	6	28	4
4	4	In Menio	λ	76	20	30	103	31	55			13	27	47	35	13	59		49	25	5	49	4
4	4	Austrina sequentis Lateris																					
3	3	Quadilateri ad Aures	ν	76	25	0	102	40	15			13	40	32	35	23	10		49	48	5	48	5
3	3	Boreæ sequentis Lateris																					
3	3	Quadilateri ad Aures																					
8	8	Sub Alvo	θ	77	21	20	104	15	15			14	24	52	17	2	42		49	4	5	25	6
7	7	In medio Corpore	ζ	78	46	10	111	2	35			15	22	25	43	57	24		46	0	4	49	3
7	7			79	30	0	111	7	45			16	18	14	44	6	50		45	56	4	29	6
7	7			79	47	20	108	4	45			17	4	47	41	6	28		47	21	4	24	3
10	9	In posterioribus Pedibus		82	20	20	112	33	20			19	50	0	45	46	6		45	10	3	20	6
10	9	Austrina	π	82	55	30	112	34	50			20	36	20	45	49	58		45	9	3	8	3
11	11	In Lumbis	χ	83	14	0	104	58	15			11	21	39	52	18	15	30	A	48	42	2	58

STELLARUM INERRANTIUM.

In Constellatione LEPORIS.

ORDO	Polaris	Tela	STELLARUM Denominatio.	Borealis	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Varia. Asc. R.			Varia. Decl. P.			Magnitudo
					0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	4	5		
9	10	10	Quæ posterioribus Pedibus Bore-	h	84	31	40	110	56	30	11	22	51	9	44	17	19	45	52	2	26	4	3
12	12	12	In extremitate Caudæ	h	85	35	20	104	15	25	24	35	48	37	39	27	48	51	2	31	4	4	
				h	87	48	20	106	29	30	27	15	13	39	57	35	47	51	1	5	6	6	
		13		h	88	4	30	104	56	30	27	37	34	38	24	26	48	37	0	57	4	4	
				h	88	35	0	109	9	55	28	9	50	42	38	23	46	42	0	45	6	6	

In Constellatione MONOCEROTIS Heveliana.

Quæ est	86	3	0	99	26	40	11	25	21	32	32	51	50	51	3	1	51	6
	86	4	0	99	37	0	25	22	20	33	2	10		51	0	1	51	6
	86	47	30	100	38	10	26	11	33	34	4	39		50	34	1	30	6
53	Inter Pedes anteriores pmi- cedens	88	26	40	101	8	10	28	8	39	34	36	26	50	18	0	50	6
		87	55	0	96	13	0	29	53	14	29	42	0	52	26	0	14	5
		90	44	0	100	38	50	0	52	14	34	7	40	50	32	0	10	6
56	In Naribus	91	10	30	97	43	50	1	21	40	31	12	30	51	48	0	18	6
		91	51	0	85	17	30	1	56	49	18	45	44	57	2	0	35	4
		92	55	0	94	12	50	3	17	5	27	39	50	53	16	1	3	5
55	Inter Pedes anteriores se- quens	93	9	30	94	56	20	3	34	3	28	2	58	53	8	1	5	6
		93	26	0	96	52	10	3	56	58	30	18	20	52	9	1	14	5
54	In Pedè sinistro anteriore sequens	93	59	0	84	57	15	4	10	54	18	22	46	57	10	1	27	5
59	Ad Genam	94	3	0	82	28	50	4	10	33	15	54	19	58	12	1	29	4
57	Ad Oculum in Fronte	94	31	0	82	13	50	4	38	51	15	38	27	58	18	1	41	5
58	Ad Aures	96	0	30	79	51	30	6	4	31	13	12	52	59	19	2	17	4
		97	25	40	81	7	40	7	34	46	14	25	0	58	43	2	32	6
60	In Cervice	97	38	30	81	40	10	7	49	40	14	56	44	58	30	3	0	5
61	Ad Collum	97	56	0	87	17	20	8	27	56	20	32	18	56	11	3	7	4
		101	52	30	93	49	30	13	17	35	26	45	38	53	30	4	45	5
		103	42	0	93	47	20	15	19	3	26	32	41	53	31	5	30	6
62	In Eductione Colli	102	53	20	89	49	50	15	4	22	35	20		55	7	5	33	5
	In Eductione Colli 2 ^a	104	0	30	90	1	0	15	13	17	22	45	40	55	3	5	38	4
		104	28	30	89	46	40	15	34	6	22	29	16	55	9	5	44	6
		104	51	30	89	39	50	16	5	34	22	19	10	55	42	5	58	6
	In Latere præcedens	110	27	30	93	27	30	22	42	31	25	20	17	53	42	8	10	6
	In Ventre	111	35	0	98	51	40	24	56	52	30	29	27	51	34	8	37	4
	In Latere sequens sub Tergo	116	3	30	92	52	20	28	39	8	21	47	50	54	0	10	21	5
	In Tergo	116	21	30	90	34	10	28	39	44	21	28	42	54	51	10	20	5
		118	15	0	92	7	15	0	49	33	22	37	35	54	15	11	8	6
	In sinistro Femore ad Edu- ctionem Caudæ	122	32	0	92	55	50	5	32	22	22	28	58	54	1	12	41	6
	In Cauda	127	6	0	96	8	50	81	43	3	24	28	10	52	0	14	15	4

In Constellatione CANIS MAJORIS.

17		Quæ in extremitate dextri		92	8	40	119	56	40	0	3	7	45	34	24	41	15	0	46	3
9	7	In extremitate Pedis anterioris		92	16	30	107	49	10	2	52	58	41	17	47	47	19	0	47	2
5		De quatuor sub Pedibus Borealiſſima		92	45	40	123	17	35	4	12	39	56	44	8	39	19	1	0	4
10		Duxum in ſiniſtro	1 ad	94	44	30	113	13	25	6	20	54	46	36	17	44	47	1	49	5
11		Geni præcedens,	2 ad	95	21	30	112	45	5	7	21	25	45	5	36	45	1	2	8	5
		Sequens,																		

CATALOGUS BRITANNICUS.

31

In Constellatione CANIS MAJORIS.

ORDO		STELLARUM Denominatio.	Hæc Class.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Varia. Asc. R.		Varia. Decl. P.		Magnitudo.	
Pole.	Tela.			0	1	2	0	1	2	5	0	1	2	0	1	2	1	2	1		2
7	6	Quæ duarum in dextro	1 ad	95	42	0	108	26	5	7	16	48	41	46	23	A	47	5	2	12	5
		Genu Boreæ	2 ad	95	48	0	109	1	25	7	25	41	42	21	25		46	45	2	17	5
8		Austrina	3 ad	96	4	2	108	0	10	7	41	57	41	19	24		47	17	2	22	5
1	1	In Ore splendidissima Sirius	x	97	52	30	106	19	15	9	49	1	39	32	8		48	7	3	7	1
16		In Poplite dextri Cruris, 1 ad	x	98	20	0	120	47	10	12	12	14	53	55	0		42	58	3	21	6
				98	10	50	104	7	40	9	59	38	37	19	38		49	4	3	14	5
				98	25	0	110	43	30	10	57	2	42	52	19		46	1	3	21	6
16		In Poplite dextri Cruris, 2 ad	x	99	27	0	122	10	50	14	5	36	55	12	5		50	12	3	47	5
2	2	In Auribus	8	99	56	50	101	40	10	11	52	53	34	44	34		50	11	3	56	5
6		In Pectore trium con-	1 ad	100	1	30	109	53	30	12	55	4	42	55	33		46	29	4	0	6
		tiguarum																			
13	9	Duarum in sinistro Hume-	2 ad	100	18	40	113	49	35	13	50	34	46	48	52		44	38	4	7	5
6		ro precedens	2 ad	100	24	30	110	3	30	13	25	49	43	3	24		46	26	4	10	6
3	3	In Capite	3 ad	100	29	10	103	40	40	12	44	29	36	41	50		49	19	4	10	4
6			3 ad	100	33	0	109	47	20	13	34	25	42	45	32		46	34	4	12	6
5	5	In Collo Austrina	1 ad	100	35	30	106	42	10	13	13	37	39	42	0		48	0	4	15	4
15	11	Sub Alvo inter duo Femora	1 ad	101	34	50	118	34	30	16	24	45	51	22	57		42	17	4	43	3 2
				102	18	45	117	31	5	17	12	31	50	15	0		42	52	4	56	4
4	4	Duarum in Collo Boreæ	y	102	26	0	105	12	25	15	17	41	38	1	50		48	42	5	0	3
12	8	Duarum in sinistro Humero	o	102	31	0	113	24	40	16	41	25	46	10	13		44	55	5	35	4
14	10	In Educatione sinistri Femoris	p	103	55	20	115	55	45	19	3	30	48	29	37		43	43	5	37	2 3
				104	51	40	115	27	10	20	12	26	47	53	49		44	1	6	0	7
				105	23	10	115	50	40	20	59	52	48	12	38		42	50	6	12	7
				105	32	30	116	16	35	21	18	34	48	36	51		43	30	6	18	5
				106	25	30	114	1	20	21	56	20	46	15	37		44	48	6	36	5
				106	26	50	114	24	45	22	3	25	46	38	30		44	37	6	35	5
18	12	In Cauda	n	107	56	0	118	42	30	25	12	16	50	38	56	A	42	34	7	12	2

In Constellatione CANIS MINORIS.

1 1	Quæ est		106 55	40	77 46	15	16 48	34	10 16	12	A	50 2	6 45	7 6				
	In Collo	8	107 9	40	80 9	25	17 19	52	12 36	42		59 2	6 50	6				
3		y	107 34	10	81 7	35	17 51	52	13 21	20		58 49	7 1	3				
4		y	107 48	30	80 29	25	18 1	23	12 51	51		58 55	7 7	6				
		n	107 50	0	82 28	55	18 18	14	14 49	14		58 5	7 9	6				
		o	108 7	30	77 22	45	17 56	21	9 45	18		60 8	7 16	6				
		1 ad	108 38	40	87 28	15	20 10	40	19 37	58		56 3	7 35	5				
		2 ad	109 13	30	86 5	25	20 14	7	18 13	51		56 36	7 42	6				
		3 ad	109 28	10	85 59	55	20 28	33	18 6	22		56 40	7 48	6				
2 2	In posterioribus Femoribus,	x	110 45	20	84 1	15	21 30	31	15 57	55		57 25	8 17	1 2				
5	dicta Progen	π	112 16	40	78 31	5	21 56	22	10 20	15		59 34	8 47	6				
		γ	113 47	40	76 41	5	23 22	23	8 15	17		60 15	9 26	5 6				
		δ	113 54	10	87 28	50	25 19	47	18 53	0		56 3	9 30	5				
		ε	115 33	45	86 59	5	26 57	40	18 6	10		56 12	10 9	6				

In Constellatione NAVIS.

1	Quæ est		112 47	10	115 41	35	27 0	38	146 45	50	A	44 25	9 8	6				
			112 48	10	103 58	5	27 26	26	35 18	3		49 32	9 7	6				

STELLARUM INERRANTIUM.

In Constellatione NAVIS.

ORDO		Stellarum Denominatio.	Reperit Class.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Varia. Varia. Astr. R. D. & P.			Magnitudo				
Procl.	Trid.			0	1	2	0	1	2	0	1	2	0	1	2	1	2	3					
9		Quæ Trium sub Scuto Puppis Media	}	112	49	40	118	14	45	6	1	34	22	49	14	58	A	43	10	9	7	4	5
				112	55	0	103	50	25	27	32	40	35	9	13			49	37	9	8	6	
				113	21	0	101	37	40	27	32	26	32	54	5			50	30	9	18	6	
3	2	Duarum contiguarum sub Scuto Borea	}	113	55	30	106	28	10	29	22	18	37	32	35			48	35	9	31	5	
				114	3	3	114	7	0	5	1	44	14	44	58	49		45	16	9	35	3	4
				114	17	40	102	3	35	28	43	17	33	8	53		50	23	9	41	5	6	
1		Duarum in Aerostolio Pup- pis præcedens	}	114	21	0	103	6	20	29	2	0	34	9	45			49	58	9	41	4	
				114	30	0	104	2	40	29	26	5	35	3	10			49	35	9	46	6	
				115	53	10	112	5	0	3	20	43	42	36	40			46	18	10	17	4	
		Sequens		116	27	10	112	29	45	4	10	26	42	53	10			46	11	10	30	6	
				116	31	0	86	51	45	27	55	7	17	48	27			56	16	10	30	4	
				117	44	50	108	52	25	5	4	34	24	39	4	45			47	48	10	58	6
2				118	34	40	113	26	25	7	5	31	43	18	24			45	55	11	17	3	
				118	47	40	108	21	50	5	39	6	38	20	40			48	5	11	22	5	
				118	49	0	102	21	30	3	56	19	32	20	17			50	27	11	23	6	
				119	4	30	102	54	50	4	22	52	32	59	10			50	15	11	27	6	
				119	11	0	102	2	10	4	15	47	32	6	27			50	36	11	30	4	5
				119	47	0	104	52	55	5	44	40	34	44	10			49	37	11	44	5	6
				120	47	30	105	2	50	7	20	0	34	57	0			49	22	12	10	6	
				122	4	0	102	5	30	7	30	6	31	29	17	A		50	41	12	33	6	

In Constellatione HYDRÆ.

	Quæ est		122	16	0	92	47	30	5	13	29	22	24	32	A		54	4	12	36	4	
			122	44	0	93	0	30	5	46	9	22	30	10			54	0	12	46	4	
			125	4	15	96	57	5	9	17	52	25	46	6			52	40	12	36	6	
2	De quinque in Capite Borea supra Oculum	}	125	17	45	83	15	5	5	59	3	12	25	37			57	23	13	39	4	
1	In Nare		125	37	30	85	36	15	6	53	14	14	38	5			56	31	13	45	5	
			126	19	15	101	24	30	11	58	2	29	44	42			51	10	14	1	6	
4	Austrina in Hiato Oris	}	126	44	45	85	31	30	7	59	12	14	17	10			56	34	14	10	4	
			126	49	0	96	3	0	10	53	30	24	27	0			53	1	14	16	6	
			126	50	30	104	51	50	13	39	49	32	55	23			49	55	14	9	6	
			127	8	15	83	14	15	7	47	49	11	58	23			57	19	14	15	5	
3	Duarum sequentium Borea, quasi in Cranio	}	127	34	15	82	28	45	8	1	52	11	7	59			57	35	14	24	4	
			127	55	30	102	27	5	14	2	39	30	18	40			50	54	14	32	6	
			127	59	15	83	3	5	8	35	4	11	35	0			57	21	14	34	5	
4			128	26	15	92	19	55	11	31	8	20	26	14			54	18	14	43	5	6
			129	4	30	96	2	55	13	15	41	23	50	45			53	6	14	55	6	
5	De quinque in Capite ul- tima in Mento	}	129	44	0	82	54	20	10	15	18	11	0	3			57	22	15	8	4	
			130	4	0	96	49	10	14	31	58	24	18	44			52	52	15	15	6	
			132	23	45	83	42	5	13	4	5	11	3	45			57	2	15	58	6	
			133	22	0	97	22	10	18	8	22	23	53	9			52	50	16	17	6	
			133	35	15	97	33	5	18	26	1	24	0	29			52	44	16	23	6	
			134	15	45	95	52	20	18	34	27	22	11	35			53	18	16	23	6	
7	Duarum in Eductione Cer- vicis sequens	}	134	33	45	86	23	45	15	57	4	13	2	47			56	9	16	40	4	
			135	18	30	95	5	40	5	19	23	26	21	8	10	A	53	32	16	52	6	

In Constellatione HYDRÆ.

ORDO		STELLARUM Denominatio.	Bayer's Class.	Ascensio Recta		Distantia à Polo B.		Longitudo.			Latitudo.			Variat. Asc. R.		Variat. Decl. P.		Magnitudo			
	Trich. Peri.			°	'	°	'	°	'	°	'	°	'	°	'	°	'				
		Quæ est		135	22	0	97	29	0	20	14	28	23	23	33	A	52	50	16	55	6
				135	37	45	100	41	25	21	37	12	26	21	24		51	55	16	58	6
				136	11	45	100	41	55	22	12	42	26	11	13		51	55	17	7	6
				136	19	45	98	16	30	21	29	56	23	50	49		52	36	17	10	6
11		Duarum contiguarum Borea	A	137	28	7	93	48	35	21	9	15	19	15	8		54	21	27	6	6
				138	0	15	97	54	0	23	4	56	22	57	49		52	48	17	38	6
12	11	Duarum Contiguarum Lu- cidior (Cor Hydræ)	α	138	4	52	97	20	25	22	57	59	22	24	32		52	57	17	40	2
8	10	Trium in flexu Colli	τ	138	21	0	91	26	55	21	15	42	16	44	1		54	40	17	45	5
10	8	Australissima, Media,	2 ad 2 ad	139	2	30	89	51	5	21	25	41	15	0	3		55	7	17	56	5
				139	45	15	94	24	20	23	42	29	19	15	1		53	47	18	6	6
9	9	Sequens		140	39	30	98	3	20	25	49	39	22	15	0		52	56	18	22	6
				141	0	0	89	46	12	23	19	19	14	18	17		55	8	18	27	4
				141	9	30	98	3	15	26	20	0	22	5	19		52	54	18	31	6
				141	18	0	99	11	30	26	53	18	23	6	24		52	37	18	33	6
13	12	Trium post flexum sequen- tem præcedens	κ	141	19	20	102	56	30	28	19	43	26	37	21		51	36	18	34	5
14	13	Media,	1 ad	144	9	15	103	24	45	22	23	33	26	5	14		51	41	19	17	5
15	14	Sequens,	2 ad	147	31	0	101	35	0	4	1	45	23	11	31		52	23	20	3	5
	15			148	52	0	100	50	35	5	4	10	22	1	2		52	40	20	22	4
16	16	Trium in recta sequentium præcedens	μ	152	47	15	105	16	20	10	44	50	24	40	10		52	3	21	10	4
17		Media,	1 ad	154	25	15	105	22	5	12	22	47	24	8	24		52	10	21	30	5
				154	49	45	112	9	55	25	52	28	30	11	55	A	50	52	21	32	6

In Constellatione HYDRÆ & CRATERIS.

	Quæ est	2 ad	155	18	30	104	4	45	22	58	27	23	14	2	A	52	22	21	41	6
17		3 ad	155	53	30	105	16	45	13	45	56	23	29	50		52	19	21	45	5
19	Duarum infra Basin Crate- ris Borea,	1 ad	157	56	15	105	40	30	15	54	24	23	4	24		52	29	22	5	6
18	Sequens		158	35	30	104	35	13	16	3	39	21	49	28		52	44	22	11	4
		2 ad	158	59	30	106	51	45	17	26	16	23	45	3		52	23	22	14	6
		3 ad	159	35	45	108	29	0	18	44	35	24	59	42		52	15	22	20	6
			161	12	0	106	39	20	19	26	43	22	42	0		52	40	22	31	4
			161	50	0	115	8	50	24	3	28	30	8	48		51	31	22	35	6
20	Duarum infra Basin Crate- ris Australina	χ	162	36	15	115	37	50	25	1	40	30	16	31		51	32	22	47	5
			163	26	30	116	27	35	26	14	11	30	41	12		51	35	22	51	6
	Duarum infra Basin Crate- ris Borea	β	164	7	45	111	8	45	24	15	35	25	37	33		52	26	22	55	3
3	Duarum in medio Cratere Borea	δ	165	58	15	103	6	50	22	23	50	17	35	20		53	39	23	8	4
		λ	167	1	0	107	7	5	26	6	43	20	49	31		53	20	23	15	5
5	In Boreo Ambita Oris	ε	167	14	30	99	10	5	21	55	59	13	28	28		54	11	23	17	4
2	In medio Cratere Australina	γ	167	22	0	105	59	10	24	56	16	19	39	22		53	29	23	18	4
		κ	167	53	30	100	39	50	23	9	20	14	35	16		54	3	23	20	5
			169	12	45	117	33	30	22	2	6	56	22	14		52	38	23	26	6
			169	21	0	119	22	20	3	11	25	30	55	59		52	26	23	27	6
21	Trium post 20 ^{am} in Trian- gulo præcedens	ξ	169	23	0	120	8	10	3	37	47	31	35	55		52	21	23	28	4
			169	48	30	121	10	50	4	34	51	32	21	21		52	19	24	30	0
7	In Boreali Ansa Crateris	θ	170	14	15	98	5	55	24	46	26	11	18	33		54	25	23	31	4
			170	14	45	122	50	55	5	54	10	33	39	23		52	19	23	32	7
			170	21	45	121	15	45	5	7	46	32	12	27	A	52	20	23	32	6

STELLARUM INERRANTIUM

In Constellatione HYDRÆ & CRATERIS.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia à Polo B.	Longitudo.	Latitudo.	Variat. Afc. R.	Variat. D. à P.	Magnitudo.
		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
22	Quæ est Trium post 20 ^m in Trian- gulo Media	170 44 30 171 8 45	101 30 15 123 0 40	26 8 52 6 47 26	14 13 32 A 33 26 39	54 15 52 29	23 32 23 35	5
4	In Australi Oris Ambitu	171 31 172 17	120 46 116 38	5 53 29 45	31 18 40 18 17 29	52 49 54 03	23 38 23 40	6
23	Trium in Triangulo dicto sequens	174 16 174 57 45	122 10 20 116 44 45	9 4 47 5 53	31 28 16 36 21 30	53 23 53 51	23 46 23 48	4
6	In Australi Ansa Crateris	175 4 30 176 16 30	105 25 40 107 56 10	1 47 42 3 58 41	16 4 46 52 59 A	54 25 54 28	23 48 23 50	6

In Constellatione CORVI.

1	Quæ in Rotto est	178 7 30	113 0 10	7 55 35	21 44 26 A	54 39	23 54	4
2	In Collo juxta Caput	178 34 178 47 20	110 53 50 111 52 35	7 21 58 8 0 25	19 39 41 20 27 45	54 43 54 44	23 54 23 54	4
3	In Ala dextra, & præcedente	179 59 22	105 49 10	6 25 58	14 29 0	54 56	23 53	3
4	In Pedore	181 8 45 181 49	110 29 35 113 7 5	9 29 58 11 16 15	18 16 40 20 21 42	55 6 55 16	23 53 23 54	5
5	2 ^a in Ala sequente præcedens	183 28 45	104 47 10	9 9 13	12 9 47	55 21	23 50	3
6	Sequens	184 1 30	104 28 35	9 31 7	11 39 55	55 23	23 49	5
7	In Pede, communis cum Hydræ	184 33	111 40 55	12 3 25	18 1 40 A	55 41	23 51	3

HYDRÆ Continuatio.

24	Quæ est Post Corvum in origine Caudæ	193 7 15 195 33 15 205 18 45	111 27 20 111 31 50 113 26 20	20 32 5 22 42 30 1 59 34	14 33 15 A 13 43 18 12 2 6	57 0 57 25 59 15	23 20 23 5 21 42	6
25	In extremitate Caudæ	205 54 207 4 30 208 46 30	113 28 45 115 10 45 115 46 40	2 32 43 4 11 8 5 52 38	11 52 30 3 58 13 4 11	59 25 59 58 60 25	21 37 21 4 21 4	6
		211 20 212 31 45 216 23 30	116 28 20 118 4 35 113 38 50	8 20 9 55 55 11 45 25	12 54 21 14 2 26 8 42 11	61 40 61 44 61 3	20 29 20 14 19 22	5
		217 2 30 217 21 45 217 26	114 10 45 114 17 50 114 45 25	12 30 12 49 10 13 1 49	9 0 50 9 1 56 9 26 50	61 20 61 27 61 36	19 12 19 7 19 7	5, 6
		217 28 218 1 15 220 6 220 56 15	115 18 45 116 37 50 116 22 55 116 48 0	13 14 24 14 8 58 15 52 16 43 19	9 57 48 11 3 9 110 13 50 12 35 52 A	61 47 62 15 62 32 62 46	19 6 18 57 18 25 18 12	6, 7

In Constellatione SEXTANTIS Heveliana.

6	Quæ ad Cylindrum Sextantis	140 10 40	81 47 50	19 59 3	6 59 30 A	57 18	18 14	5
5	In Latere, Australis superior	140 32 30 143 8 0	83 58 25 95 50 0	21 0 44 27 30 12	8 56 56 12 19 57	56 41 53 35	18 19 19 0	5
		143 33 30 143 44 30 143 52 30	84 13 45 95 57 5 92 48 50	23 58 17 28 9 7 27 10 14	8 14 5 19 14 20 16 14 25	56 30 53 32 54 22	19 7 19 6 19 12	6
	In Latere, Australis infe- rior	144 1 0 144 18 0 144 26 30 144 58 30	86 7 30 96 40 0 83 37 5 79 37 10	25 1 4 28 57 20 24 36 8 23 47 51	9 52 53 13 43 16 7 22 14 3 25 19 A	56 2 53 25 55 37 57 38	19 13 19 6 19 18 19 26	6

In Constellatione SEXTANTIS Heveliana.

ORDO	Puls.	Hæc.	STELLARUM Denominatio.	Recl.	Ascensio Recl.			Distantia à Polo B.			Longitudo.			Latitudo.			Variæ Afc. R.			Variæ D. à P.			Magnitud.
					0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	1	2	3	
			Quæ est		145	24	10	80	13	40	24	23	47	3	51	31	A	57	26	19	33	5	6
					145	52	30	84	9	20	26	8	41	7	24	41		56	26	19	41	6	
					146	59	40	81	18	40	27	35	45	8	7	37		56	10	19	57	6	
					147	37	0	82	53	40	27	21	37	5	38	35		56	41	20	4	6	
					147	59	30	88	52	20	29	46	47	11	8	24		55	20	20	10	4	
					148	14	30	82	19	30	28	45	7	4	53	50		56	40	20	26	6	
					148	38	30	96	54	10	29	3	19	24	18	25	36		53	32	20	17	6
					148	53	0	96	54	20	3	33	37	18	20	37		53	32	20	23	6	
					149	8	30	83	52	10	28	46	5	5	6	3		56	38	20	25	6	
					149	32	30	95	52	10	29	3	48	38	17	8	28		53	48	20	30	6
					149	39	40	96	28	10	4	9	26	17	39	29		53	41	20	32	6	
					150	33	45	96	22	30	5	3	17	24	10			53	40	20	43	6	
					151	13	10	86	10	30	1	53	18	7	29	0		55	50	20	52	5	
					151	51	30	89	21	10	3	37	56	10	13	42		55	12	20	58	6	
					151	54	20	92	21	30	4	50	38	13	10	16		54	34	21	0	6	
					152	39	45	89	21	15	4	23	39	9	56	26		55	12	21	8	6	
					152	43	10	92	49	40	5	43	53	13	9	32		54	31	21	9	6	
					152	52	15	91	10	25	5	15	35	11	33	30		54	50	21	12	5	
					153	23	45	90	10	30	5	23	29	10	26	35		55	2	21	16	5	
					153	36	30	89	3	50	5	11	2	9	19	47		55	13	21	19	5	
					153	38	0	86	16	0	4	12	21	6	42	41		55	47	21	19	6	
					154	1	10	83	46	45	3	38	53	4	14	36		56	11	21	23	6	
					156	22	30	90	7	40	8	11	16	9	18	26		55	1	21	49	6	
					156	39	30	84	48	30	6	28	48	4	15	27		55	55	21	53	6	
					156	49	0	83	38	30	6	11	46	3	6	33		56	8	21	55	6	
					157	16	10	85	53	50	7	27	0	5	2	42		55	44	21	59	6	
					157	27	0	82	0	20	6	10	48	1	21	41		56	22	22	0	6	
					157	46	30	82	1	50	6	29	33	1	15	59		56	21	22	1	6	
					158	18	10	97	23	20	12	43	42	15	18	38		53	54	22	8	7	
					158	21	20	92	24	0	10	54	52	10	40	35		54	40	22	9	6	
					158	39	0	97	16	0	13	5	35	15	3	55	A	53	56	22	11	6	

In Constellatione CENTAURI.

3	3	Quæ de 4 in Capite 2 ^a Media præcedens	i	202	1	45	121	27	15	2	22	45	20	33	34	A	60	19	22	15	4	5			
1	1	De 4 in Capite Australissima	£	202	53	10	122	52	55				3	41	36	21	34	40		60	49	22	7	4	5
4	2	De 4 in Capite 2 ^a Med. sequens	k	203	30	0	121	26	15				3	36	0	20	2	50		60	39	22	0	4	5
2	3	De 4 in Capite Borea	b	203	51	30	120	22	35				3	27	55	18	57	0		60	29	21	56	4	5
6		In dextro Humero	o	207	8	0	124	48	35				8	0	18	21	59	6	A	62	24	21	22	3	

In Constellatione LUPUL.

18		Quæ 2 ^a in Pedè anteriore Australissima est	223	55	0	120	19	25				20	21	0	12	58	21	A	64	33	17	22	5	
19			224	45	0	118	58	25				20	39	24	11	28	12		64	11	17	2	5	6
16		Duarum in Rostris præcedens	230	1	15	123	21	5				26	20	43	14	25	44		66	56	15	33	5	6
			230	45	15	123	39	45				27	2	28	14	34	6		67	12	15	15	5	6
17		Sequens	232	49	15	122	37	0				28	29	40	13	7	48	A	67	4	14	39	5	

In Constellatione PISCIS AUSTRINI.																				
ORDO		STELLARUM Denominatio.	Reper. Obs.	Ascensio Reſta.			Distantia à Polo B.			Longitudo.			Latitudo.			Vari. Ast. R. D. à P.			Magnitudo.	
Procl.	Trab.			0	1	2	0	1	2	50	1	2	0	1	2	1	2	3		
		Quæ est		310	31	20	123	25	30	4	5	10	14	37	13	67	12	13	22	5
				311	34	20	123	32	40	4	55	26	14	58	20	67	2	15	40	6
				313	34	20	118	50	40	7	56	28	10	55	40	64	41	15	20	6
				314	44	30	123	25	20	7	35	20	15	36	7	66	26	16	40	4.5
				317	34	10	122	32	10	9	56	0	15	22	36	65	30	17	23	6
				318	20	0	125	15	50	9	57	40	18	15	14	66	26	17	42	6
				319	29	45	124	23	20	11	12	10	17	43	27	65	49	17	58	6
11		Trium in Pinna Boreæ præced.		319	30	30	117	31	0	13	26	18	11	12	5	63	15	18	24	5
10		Mediæ est		321	34	30	124	23	50	12	54	28	18	17	15	65	24	18	35	4
9		Sequens		322	20	30	122	17	40	14	19	30	16	21	18	64	22	18	47	4
				325	24	45	119	54	20	17	57	48	14	21	20	62	42	19	36	6
				325	42	30	119	54	20	17	55	20	15	13	40	62	55	19	38	5
6		In Australi Pinna super Costis		326	35	15	121	22	10	18	8	10	16	51	45	63	13	19	47	6
				327	31	40	124	27	40	17	45	56	20	2	0	64	2	20	3	4
				327	57	0	124	1	50	18	16	36	19	45	20	63	47	20	8	5.6
		2 ^a in Ventre præcedens		329	8	40	119	16	30	21	3	20	15	40	40	62	3	20	25	4.5
2		3 ^{im} in Australi ambitu Capitis præcedens		333	25	15	123	53	20	22	49	55	21	18	30	62	21	21	15	3
5		Ad Branchiam		335	50	10	118	38	0	26	58	40	17	14	18	60	29	21	43	3.4
				336	14	15	120	57	10	26	22	50	19	30	50	60	58	21	48	5
				337	5	30	116	50	20	28	45	50	16	0	10	59	52	21	56	6
				338	31	20	121	8	0	28	13	16	20	26	36	60	27	22	11	6
3		In ambitu Capitis 3 ^{im} Media		338	46	0	124	29	20	26	58	26	23	36	10	61	7	22	12	5
4		Sequens		339	38	30	124	10	0	27	50	15	23	36	7	60	48	22	19	5
1		In Ore & principio Fluvii		340	5	0	121	14	45	29	29	0	21	4	56	60	7	22	24	5

F I X A R U M

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CONSTELLATIONIBUS

EXTRA

Zodiacum ad Septentrionem Sitis.

In Constellatione CASSIOPEÆ.

ORDO		STELLARUM Denominatio.	Reper. Obs.	Ascensio Reſta.			Distantia à Polo B.			Longitudo.			Latitudo.			Vari. Ast. R. D. à P.			Magnitudo.
Procl.	Trab.			0	1	2	0	1	2	50	1	2	0	1	2	1	2	3	
		Quæ est		343	25	0	32	14	20	21	6	45	56	46	0	44	4	22	48
				344	7	30	32	20	0	21	29	16	56	26	10	44	3	22	55
				347	37	0	33	1	30	23	5	5	54	38	32	46	57	22	20
14				347	49	30	29	24	30	27	42	49	57	10	12	45	53	23	17
				353	1	30	33	3	30	26	46	31	52	39	50	50	21	23	40
				353	31	0	29	29	50	28	1	9	40	55	7	50	1	23	43

CATALOGUS BRITANNICUS

37

In Constellatione CASSIOPEÆ.

ORDO		STELLARUM Denominatio.	Bayer. Char.	Ascensio. Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Vari. Aste. R.	Vari. D. à P.	Magnitudo				
Procl.	Tych.			°	'	"	°	'	"	°	'	"	°	'	"							
13	13	Que in summitate Sedis In dextro Cubito	p	354	46	30	34	13	0	26	46	24	51	9	17	B	51	37	23	45	6	
10	10		α	355	52	0	35	57	40	25	50	41	49	23	50		52	28	23	50	6	
				357	9	0	29	26	0	3	38	59	53	57	10		52	39	23	50	6	
12	12	In medio Sedis	β	357	41	0	27	31	10	6	4	35	55	10	6		52	49	23	52	6	
				358	14	0	32	33	20	0	48	6	51	13	50		53	33	23	52	3.2	
				2	1	0	29	52	50	5	59	15	52	1	20		56	10	23	50	6	
22		Supra Scabellum Throni	λ	3	32	30	25	11	45	12	9	24	55	1	40		57	43	23	52	6	
11	11			3	43	30	37	11	10	0	22	23	45	38	50		56	45	23	47	5	
			κ	3	58	0	28	46	40	8	20	19	52	14	40		57	38	23	44	4	
1	1	In Capite In Pectore Schedæ	γ	4	13	0	34	57	50	12	47	47	54	59	48		58	17	23	50	6	
2	2		α	5	0	0	37	47	50	0	47	38	44	42	13		57	26	23	50	4	
				5	49	0	35	9	45	3	30	24	46	35	53		58	9	23	46	3	
24	26	In Virga, Penultima est Extrema	ε	6	13	45	41	11	40	29	10	44	25	50		57	44	23	47	6		
			π	6	30	0	44	40	30	27	6	18	38	19	0		57	35	23	46	6	
				6	39	0	16	43	20	25	15	54	59	53	43		63	23	23	47	6	
25		In Cingulo	ο	6	55	0	43	24	30	28	10	25	39	17	45		57	50	23	44	6	
				7	11	30	16	51	40	25	14	30	59	41	10		64	3	23	40	6	
3	3		η	7	40	30	33	50	10	5	52	56	47	4	19		59	25	23	41	4	
23		In Coxis	1 ad	7	51	0	40	43	30	0	41	50	41	16	5		58	33	23	41	5	
				9	29	30	32	42	30	8	2	23	47	24	44		60	47	23	36	7	
4	4		2 ad	9	35	30	30	57	20	9	39	54	48	47	56		61	17	23	35	3	
21		In sinistro Brachio	υ	9	38	30	32	29	40	8	19	26	47	32	20		60	57	23	34	6	
				11	29	0	26	38	0	14	55	6	51	39	20		63	58	23	26	6	
9	9		μ				36	36	25												5	
8	8	In sinistro Brachio infra Anconem	θ	12	32	30	22	53	40	19	30	36	54	13	40		66	38	23	20	6	
				13	0	0	26	38	0	15	46	12	51	13	50		65	11	23	19	6	
20				13	8	30	36	31	30	7	28	29	43	5	15		62	40	23	18	4	
		In Genibus	ι	15	14	30	33	24	30	11	13	16	45	4	7		64	11	23	6	7	
				15	26	10	26	38	20													
15	5		δ	16	10	0	23	30	0	20	39	40	52	49	50		69	40	22	59	3.6	
17			ζ	16	30	0	31	23	0	13	37	15	46	23	26		65	43	22	57	3	
				17	15	0	21	23	0	23	28	44	54	11	20		72	20	22	52	6	
13			χ	18	31	30	32	22	10	14	8	54	58	55		66	35	22	44	6		
			h	18	41	0	18	33	30	27	23	27	55	58	51		76	51	22	46	6	
				19	56	0	18	57	50	27	26	30	55	24	40		77	43	22	33	6	
			ε	19	57	30	20	58	10	25	12	45	53	52	19		75	27	22	33	6	
18		In Cruce	c	20	1	0	23	33	10	22	34	53	51	50	12		73	32	22	32	6	
				20	42	30	31	1	40	16	31	55	45	30	16		68	36	22	26	6	
			d	23	7	0	27	52	20	20	26	48	47	31	50		72	12	22	4	3	
6	6		z	23	10	0	22	51	50	24	51	8	31	38	50		76	32	22	2	6	
			11	24	0	0	14	14	30	II	4	49	7	58	6	56		91	40	21	56	5
			e	24	20	0	20	36	5	δ	27	38	26	53	12	7		80	16	21	52	5
			f	24	24	0	15	24	50	II	3	28	12	57	11	10		89	20	21	53	6
				24	29	0	19	6	20	δ	29	15	53	54	21	4		82	32	21	50	4.5
				24	55	0	16	56	0	II	1	51	18	55	56	45		86	50	21	48	6
				25	4	0	27	7	20	δ	22	10	15	47	40	34		74	12	21	47	7
				25	7	30	26	37	20									74	40	21	46	7
				25	52	0	19	56	40	29	0	43	52	24	15		82	48	21	38	6	
			27	40	0	24	57	50	25	27	24	48	53	6	B		78	8	21	18	6	

In Constellatione ANDROMEDÆ.

23	Que extra præcedit tres in Manu dextra	ο	341	55	30	40	19	30	T	3	29	27	43	45	38	B	48	34	22	41	3.4
			342	6	0	48	53	30									48	33	22	43	6

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STELLARUM INERRANTIUM.

In Constellatione ANDROMEDÆ.

ORDO		STELLARUM Denominatio.	Elevation. Gradi.	Ascensio Rehta.	Distantia a Polo B	Longitudo.	Latitudo.	Variatio Astr. R.	Variatio D. A P.	Magnitudo
Procl.	Tibula									
		Que est		342 36 10	41 37 0	10 21 16	49 53 26 B	46 53 22 43	6	
				343 24 0	45 16 0	7 53 15	46 35 5	48 11 22 51	6	
				343 27 30	42 22 25	10 21 5	48 56 23	47 27 22 50	6	
				344 2 39	48 6 5	6 15 11	43 57 5	49 0 22 55	6.7	
				344 37 30	42 16 10	11 26 45	48 34 11	47 56 23 0	6.7	
				345 53 0	42 40 0	12 8 29	47 45 17	48 34 23 5	6	
				345 55 30	49 34 40	6 36 29	41 39 54	50 0 23 8	6	
				346 17 30	49 36 45	7 8 12	41 46 32	50 5 23 11	6.7	
				346 18 30	43 3 45	12 9 27	47 15 55	48 51 23 9	6	
				346 29 15	53 30 0	4 44 16	38 20 45	50 45 23 10	6	
				348 4 0	48 47 0	9 15 12	41 46 59	50 34 23 20	6	
				349 1 30	52 27 30	7 38 10	38 14 42	51 25 23 24	6	
9	10	Trium in Mena dextra Borea	λ	349 53 0	51 27 45	9 1 14	38 46 4	51 33 23 29	6	
7	7	Austrina	λ	350 37 30	45 12 25	14 0 43	43 48 34	51 2 23 33	4	
				350 45 30	48 26 15	11 47 25	41 1 26	51 30 23 34	4	
8	8	Medio	μ	351 4 30	41 14 10	17 32 35	46 55 32	50 39 23 36	6	
				351 18 45	47 22 5	13 0 18	41 43 6	51 34 23 36	4	
				352 42 0	45 17 20	15 29 13	42 56 29	51 53 23 42	5.6	
1		In Capite, et Umbilico Pegasi	τ	352 6 0	62 37 45	9 58 53	45 41 1	54 42 23 52	2	
				352 35 30	45 38 30	20 9 52	40 24 33	54 16 23 52	5	
				359 23 30	50 40 20	17 34 35	35 46 13	54 40 23 54	6	
5	5	Trium in dextro Brachio	θ	0 12 30	53 2 50	16 51 44	33 22 53	54 56 23 53	4.5	
4	4	Borea	σ	0 31 0	54 56 10	16 3 52	31 35 56	55 2 23 54	5	
		Austrina		0 57 30	47 55 35	14 33 36	28 54 15	55 2 23 54	6	
6	6	Media	ρ	1 11 0	53 45 10	17 16 50	32 23 11	55 15 23 53	5	
				3 26 30	61 58 25	14 59 3	24 11 42	55 41 23 52	6	
2	2	In dextro Humero	π	5 4 0	58 0 0	18 19 47	27 8 28	56 13 23 52	4.5	
3	3	In sinistro Humero	ε	5 32 40	62 23 15	16 37 2	23 0 57	56 8 23 48	4	
1	22	In Intersepilio, et nota Quæ	δ	5 41 30	60 51 10	17 28 14	24 20 35	56 14 23 47	3	
				6 7 0	52 15 25	22 13 13	31 51 36	56 51 23 48	6	
				6 28 0	50 25 25	23 31 40	33 20 44	57 4 23 47	Neb.	
10	11	In sinistro Brachio	ζ	7 45 0	67 26 5	16 16 29	17 35 51	56 17 23 42	4	
14	15	Trium sub Cingulo Borea	ι	8 11 0	50 37 5	24 48 52	32 33 13	57 37 23 41	4	
				9 33 30	68 2 20	17 40 58	16 19 35	56 32 23 35	6	
13	14	Trium sub Cingulo Media	μ	9 52 30	53 12 35	24 48 49	29 39 20	57 55 23 35	4.5	
11	12	In ancone Brachii sinistri	η	10 13 0	68 14 35	18 6 8	15 55 19	56 36 23 34	5	
				11 25 0	50 18 45	27 35 23	31 40 9	58 44 23 29	6	
				11 30 0	59 51 45	22 54 41	22 3 47	57 39 23 27	6	
20	21	In dextro Genu	d	12 37 0	47 42 50	29 58 16	33 33 13	59 34 23 27	5	
12	12	Sub Cingulo trium Austrina	g	12 57 0	44 24 5	2 8 1	136 20 21	60 15 23 20	5	
				13 5 0	56 2 40	26 2 44	25 56 19	58 30 23 20	2	
				13 14 0	49 34 10	29 26 27	31 41 40	59 28 23 18	6	
				13 29 0	53 55 45	27 24 8	27 42 13	58 57 23 17	5.6	
				16 5 0	46 6 40	3 33 44	23 47 50	61 8 22 4	4.5	
				16 32 0	53 54 53	29 54 29	26 39 3	59 48 22 58	6	
				17 21 0	46 12 40	4 38 45	33 17 31	61 38 22 52	5	
				17 57 30	44 36 45	5 49 27	34 30 55	62 14 22 48	5	
21		Duarum in Syrmate Borea	ε	19 42 0	50 9 50	4 16 27	28 58 21	61 3 22 34	6.5	
18	19	Duarum in Poplite sinistro,	υ	19 42 0	50 9 50	4 16 27	28 58 21	61 3 22 34	6.5	
		Borealis		19 48 40	42 57 20	8 8 36	25 23 45	63 27 22 32	5	
23		In dext. pede, Australior Perfr	λ	20 15 0	47 12 10	6 11 26	31 27 43	62 27 22 30	6	
19	20	Duarum in Syrmate Austrina	λ	20 15 0	47 12 10	6 11 26	31 27 43	62 27 22 30	6	
		Duarum in Poplite sinistro	τ	20 37 30	51 0 40	4 36 1	127 54 6	61 36 22 26	5	
16	17	In dextro Pede Boreo Perfr	φ	21 8 40	40 53 10	8 10 18	13 36 49	62 43 22 32	4	

In Constellatione ANDROMEDÆ.

ORDO		Stellarum Denominatio.	Bayer Clas.	Ascensio Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Variæ Afc. R.D. à P.			Magnitud.
Pol.	Yrch.			0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	
		Quæ est		23 44	0	50 49	15	8	7 9 45	7 4 8	B	61 40	21 58	Nel					
				24 29	0	54 17	35		6 13 5	23 39	13	61 12	21 49	6					
15	16	Supra pedem finistram	γ	26 17	30	49 11	5		9 55 44	7 46	7	63 52	21 33	2.5					
				27 30	0	53 38	20		8 56 41	23 18	11	63 02	21 17	6					
				28 4	30	52 27	0		9 54 32	24 13	24	63 30	21 12	6					
			δ	28 31	0	47 14	50		12 32 26	28 52	35	65 12	21 6						
				29 31	0	42 38	0		15 27 48	32 48	36	67 31	20 55	6					
			ε	29 55	0	44 4	45		15 4 19	31 22	28	67 32	20 55	6					
				30 13	0	41 18	5		16 38 31	31 49	31	68 24	20 45	6					
				31 4	30	41 25	50		17 11 50	33 28	27	68 42	20 39	6					
				31 21	30	41 9	25		17 52 19	33 38	50	69 72	20 37	5					
				31 53	30	40 50	25		18 4 41	33 47	35	69 12	20 26	6.7					

In Constellatione TRIANGULI.

1	Quæ est In Apice Trianguli	α	21 3	0	62 3	50	8	0 5 17	17 39	8	59 27	22 23	6				
		β	23 50	30	61 57	0		2 30 51	16 48	23	60 22	21 57	4				
		γ	26 13	0	58 14	45		6 0 25	19 28	0	61 24	21 33	6				
2	Trium in Bate præcedens	β	27 46	30	56 32	0		7 59 44	20 34	17	62 14	21 14	4				
		γ	28 35	0	59 57	30		7 18 45	17 6	18	61 29	21 6	7				
		δ	28 36	20	61 9	20		6 52 25	15 59	2	61 11	21 7	6				
3	Media Sequens	η	29 24	10	58 6	30		8 42 40	18 34	12	62 8	20 55	6				
		θ	29 32	10	57 13	5		9 9 43	19 21	32	62 26	20 54	3				
4		γ	29 43	30	57 36	30		9 10 21	18 56	7	62 23	20 52	4				
		α	30 13	45	62 48	40		7 38 31	13 55	26	61 52	20 46	6				
		δ	32 16	30	59 37	15		10 32 52	16 16	32	62 20	20 17	6				
		ε	32 31	0	61 43	15		9 59 34	14 14	3	61 48	20 20	7				
			32 40	0	61 29	20		10 12 15	14 24	24	61 53	20 14	7				
			33 27	0	55 15	30		13 8 28	20 0	37	63 59	20 2	6				
			34 13	45	56 41	40		13 15 11	18 26	18	63 41	19 54	7				
		ε	37 39	30	65 8	5		12 56 17	8 32	12	61 22	19 3	7				

In Constellatione PERSEI.

	Quæ est	ε	23 0	30	36 24	20	8	14 19	13 40	13	16	B	67 21	22 5	6		
			23 12	30	40 45	45		11 52 1	136 18	37	65 37	22 4	6				
			24 48	0	42 20	0		12 9 56	14 25	1	65 45	21 46	5.7				
			25 31	0	37 2	0		15 39 10	38 57	36	68 18	21 42	6				
			27 39	0	33 50	40		19 1 27	41 12	23	71 72	18 6					
		b	28 20	0	40 24	0		15 44 57	25 9	43	68 22	11 6					
1	In Manu dextra est	χ	29 9	30	33 57	0		19 56 48	40 43	21	71 52	20 59	7.6				
			29 12	0	33 33	45		20 12 35	41 3	22	72 130	59 7					
		ι	30 18	30	35 25	30		19 44 43	33 57	41	71 26	20 46	6				
			31 0	30	34 48	50		20 39 22	32 28	43	72 18	20 37	7				
			35 21	30	36 15	0		22 47 40	37 6	23	73 23	19 39	7				
		γ	35 43	7	51 9	0		16 31 53	22 13	6	65 46	19 27	6				
4	In sinistro Humero	θ	35 49	0	42 6	45		20 19 23	21 36	7	70 11	19 31	4				
			36 5	0	47 2	15		18 25 57	16 57	27	67 54	19 27	6				
			37 8	0	41 32	20		21 32 0	21 48	10	70 58	19 12	6				
Inf-3	Illas in Larva præcedit, 1 ad	p	37 46	30	52 59	30		17 29 13	20 55	32	65 52	19 2	4				
		r	38 6	30	56 14	40		16 36 35	17 46	8	64 41	18 58	5.6				
5	In Capite	τ	38 8	0	38 22	30		23 35 35	34 20	12	73 13	18 57	5				
Inf-3			38 32	30	38 32	25		23 52 46	14 14	32	73 22	18 52	5				
		2 ad p	38 34	0	52 57	30		18 8 11	20 44	43	66 4	18 49	6				
			39 39	0	59 20	40		16 51 8	14 24	47	63 54	18 33	4.5				

STELLARUM INERRANTIUM.

In Constellatione PERSEI.

ORDO	Stellarum Denominatio.	Ascensio Recta.	Distantia à Polo B.	Longitudo.	Latitudo.	Variatio.	Variatio.	Magnitudo.
15	15	39 46 0	51 36 30	19 34 35	42 15 15	66 54	18 32	4
3	3	40 39 0	37 44 20	25 42 73	30 5	74 46	18 17	6
		40 47 38	55 9 10	19 11 10	18 5 0	65 43	18 13	6
14	14	41 21 30	52 23 40	20 34 32	20 33 13	66 58	18 6	4
12	12	42 2 15	50 16 50	21 50 42	22 23 47	68 6	17 56	2.3
11	11	42 11 0	46 20 50	23 21 12	26 4 21	70 5	17 53	5.4
13	13	42 50 30	51 36 20	22 1 40	20 55 58	67 43	17 42	5
		44 12 30	40 57 10	26 52 44	30 42 12	73 52	17 18	6
		44 15 0	47 8 50	24 38 48	24 49 52	70 15	17 16	6
		44 19 30	41 4 30	26 54 44	30 33 42	73 51	17 17	5.6
7	7	45 11 0	47 49 50	25 7 56	23 58 4	70 10	17 2	6
		45 37 0	41 16 55	27 46 43	30 5 20	74 11	16 54	2.3
		46 51 30	41 37 5	28 32 35	29 30 32	74 22	16 33	6
8	8	47 14 30	43 6 50	28 17 42	28 0 25	73 30	16 23	5
		47 47 30	45 1 50	28 3 15	26 3 48	72 27	16 15	5.7
9	9	48 41 0	42 52 40	29 25 56	27 55 18	74 4	16 0	5
10	10	49 17 35	58 57 51	35 6 12	12 21 33	65 47	15 46	6
		50 16 30	43 15 20	II 0 29	627 15 22	74 19	15 30	3
		50 42 50	57 4 25	II 26 48	50 13 52 0	66 50	15 21	6
22	22	51 4 30	48 26 20	29 30 20	22 7 2	71 18	15 15	4
28	28	52 28 59	57 41 35	28 7 41	12 53 18	66 51	14 47	6
		53 29 30	40 14 40	II 3 46	47 29 32 53	77 22	14 26	5
26	26	53 41 0	59 4 30	II 28 47	44 11 17 53	66 27	14 23	3
23	23	54 18 0	50 55 30	II 1 21	25 19 4 53	70 36	14 9	3
24	24	54 45 0	55 8 35	0 39 15	14 54 5	68 28	14 0	5
17	17	55 56 0	40 32 10	5 26 22	28 50 59	77 55	13 38	4
18	18	56 35 30	43 9 25	5 10 53	26 12 7	76 4	13 25	5
		56 57 30	53 8 0	2 56 49	16 26 26	69 55	13 13	6.7
		57 0 30	52 49 0	3 3 44	16 44 24	70 4	13 16	6.7
19	19	58 5 30	42 25 25	6 29 0	26 40 9	77 0	12 53	4
Inf. 1	20	58 29 0	50 20 50	4 49 30	18 53 20	71 45	12 43	5
20	20	59 49 30	44 17 15	7 17 47	24 34 59	76 0	12 13	6
		60 6 30	56 13 50	4 51 11	12 51 49	68 44	12 10	6
		61 7 30	56 38 10	5 37 6	12 17 48	68 42	11 46	6
		61 10 0	56 48 0	5 37 19	12 7 43	68 36	11 45	7
		62 57 30	47 39 30	8 55 46	20 49 10	74 17	11 7	6
21	21	63 51 0	49 25 0	9 16 20	18 58 0	73 16	10 49	5
		65 16 30	47 16 10	II 10 48	520 53 2 B	74 54	10 15	6

In Constellatione CAMELOPARDALI Heveliana.

Quæ est	61 56 30	26 49 0	II 10 40	50 31 34	11 B	82 52	11 32	6
13	63 55 30	37 11 20	11 57 8	30 57 5		83 4	10 47	5
	63 56 0	37 35 0	11 51 59	30 33 50		82 39	10 46	6
12	65 59 0	33 50 40	13 54 51	34 1 34		87 13	10 10	6
	67 31 10	35 18 30	14 49 40	32 23 14		85 57	9 26	6
	67 53 40	34 43 40	15 12 14	32 55 15		86 43	9 17	6
11	68 10 30	36 48 0	14 57 53	30 51 6		84 29	9 10	5
	68 49 30	37 22 10	15 18 2	30 13 18		84 0	8 54	7
	69 0 0	30 4 10	16 56 13	37 23 52		93 15	8 53	5.4
	69 52 30	31 31 10	II 17 10	15 35 53	33 B	91 21	8 33	5

CATALOGUS BRITANNICUS.

41

In Constellatione CAMELOPARDALI Notandum.

PROG.	STELLARUM Denominatio.	Re- cta.	Ascen- sio Recta.	Distan- tia a P. B.	Longi- tudo.	Latitudo.	Mag- nitud. P.	Mag- nitud. B.
	α	0	0	0	0	0	0	0
	β	69 53 30	31 28 18	11 41 3	11 41 3	45 1	4	5
	γ	70 38 30	38 0 4	19 16 31	19 16 31	24 50	1	8 11 4
	δ	71 14 40	27 45 15	18 4	18 4	4	4	5
	ε	73 14	32 16 3	19 1	19 1	41 4	20	6
	ζ	74 17 30	32 48 5	19 46 5	19 46 5	4 11 35	7	6 5 6
	η		27 15 10					6
	θ	76 33	33 3 3	21 12 5	21 12 5	33 51 7	0 15	5 52 6
	ι	76 54	26 6 3	22 26	22 26	140 45 1	2	5 46 6
	κ	77 5 3	27 45 10	21 58 11	21 58 11	3 6 1	9 51	5 2 7
	λ	78	28 1 45	22 45 4	22 45 4	8 3 2	1	5 22 6
	μ	78 15 3	32 5 35	22 13 47	22 13 47	57 15	9 4	5 11 7
	ν	78 42 1	45 5	22 17 15	22 17 15	8 1 18	27	4 54 6
	ξ	79 4	32 3	21 54	21 54	43 8 35	1	4 46 6
	ο	79 37	35 45	21 19 14	21 19 14	2 5 5	23 4	4 36 7.8
	π	8 8	34 4 3	22 27 22	22 27 22	24 57	23 43	4 24 5.6
	ρ		3 7 25					5.6
	σ	8 11 15	3 1	27 31 54	27 31 54	22 10	5 48	4 27 6.7
	τ	1 4	3 74 58	24 2	24 2	27 27	56 4	4 45 6
	υ	81 17	31 11	4	4	1 1 42	28 55	3 56 6
	φ	81 51	3 14	14 4 3	14 4 3	24 4	5	44 5
	χ	8 16	34 5	24 5	24 5	12 5	10 29	33 5
	ψ	82 56 5	34 27 1	25 17 21	25 17 21	12 10 40	19 31	3 14 7
	ω	83 3	5 45	25 38 28	25 38 28	11 51 4	19 10	3 3 6
	Ω		28 28 35					5.8
39	Inter Pedes anteriores	84 27 15	4 17 5	27 1	27 1	28 43 15 17	1-7 41	2 17 6
		43	31 5 2	27 1	27 1	35 2	94	2 8 5.6
		51	5 5	27 25 4	27 25 4	35 4	1 53	1 59 7
			7 32 2					2.7
		6	9 58 9	28 7	28 7	24 33 20	46 22	1 37 6.7
		92 5	7 52 10	1 46 33	1 46 33	29 55	1 16	0 5 7
		94 47	11 5	2 2	2 2	4 14 22	11 15	1 34 4.5
		95 7 3	5 25	2 3 3	2 3 3	5 43 21	117 17	1 3 4.5
		1 2 53 37	2 5 3	8 5 5	8 5 5	1 5	44 46	5 2 6
		1 3 3	3 42 5	8 8	8 8	1 1	4 2	5 4 7
		1 3 10 45	3 15	8 13 5	8 13 5	1 33	5 1	5 7
		1 3 44	29 25	8 28	8 28	7 2 14	6	5 6
		10 15	2 47 3	11 18 4	11 18 4	37 6 3	14 1	7 11 6
		119 37 3	26 29 6	11 44 4	11 44 4	48 3	1 3	7 42 5
		110 4 15	28 53 5	14 1	14 1	8 6	23	4 7 5 6
		11 1 1	3 51 45	11 4	11 4	5 45	1 18	7 54 5
		112 48	32 44	14 4	14 4	57	9 3	5 5
		112 46 45	28 53 19	1	1	5 49 14	5	2 2
		114 19 42	3 55 15	16 5 2	16 5 2	1 5 55	7 6	9 2
			41 1					5
		117 27 14	28 44 2	11 4	11 4	7 1 30	4 1	43 5
		117 45	16 35 25	216	216	1 28 5	1 5	5 52 5
			11 15					5

In Constellatione AURIGÆ.

288	f	67 17	54	11 11 14	11 11 14	28 5	14	5 9 4 5
	g	68	54 56	11 11 4	11 11 4	1 28	1	5 5.6
	h	4 14	5 49 1	11 19 24	11 19 24	8 1	15	4 4
	i	69 24 4	5 17 4	13 1	13 1	11 5 4	2	4 5
	k	6 16 3	1 7 0	1 43 11	1 43 11	13 1	21	6 32 6

STELLARUM INERRANTIUM

In Constellatione AURIGAE.

ORD.	STELLARUM Denominatio.	Afcenso Recla.	Distantia à Polo B.	Longitud.	Latitudo.	Afc. Recla.
1	2	3	4	5	6	7
7	In cili In dextro Brachio Ancone	69 47 0	50 51 5	113 44 35	16 43 1	3 11 8 3 6
9	In sinistro Carpo duarum distantiarum Heli praece	69 57 30	46 41 0	14 31 10	20 54 24	7 6 7 8 2 4
8	Serpens	70 41 30	37 52 2	16 4 48	33 21	82 41 8 12 5
13	In Humero nostro dextra Capula	71 12 30	4 13 50	15 6 51	15 14	74 25 7 51 4
3		73 5 0	51 56 0	16 13 16	15 23 12	7 5 7 1 5
10		73 25 0	43 58 50	17 32 35	24 15 8	78 38 7 7 5
11		73 3 0	44 22 5	17 31 41	22 51 48	78 2 7 1 1
12		73 49 30	57 43 3	16 10 5	9 13 56	27 6 52 5
14		74 1 0	13 5	17 28 54	13 58 3	3 1 6 47 1
15		74 23 0	57 0 1	16 49 17	10 15 2	58 0 1 6
16		74 30 30	56 37 30	16 52 4	10 35 44	70 8 6 17 7
17		74 45 30	56 23 4	17 7 16	10 48 4	7 17 6 12 8
18		74 55 27	56 24 55	17 15 23	10 46 2	70 16 6 1 1
19		74 5 30	48 3 3	18 10 58	18 34 1	5 15 6 26 6
20		75 11 0	11 57 0	18 6 48	14 7 21	72 6 1 2 1 1
21	In dextri Pedis Millioh communis cum Cornu & Boreo	75 58 30	61 24 1	17 39 8	5 44 51	67 36 6 1 6
22		76 40 0	61 42 5	18 13 56	5 21 33	67 29 5 4 2
23	In summo i cili	76 48 0	55 9 4	18 53 4	11 10 5	70 45 5 47 5 6
24	In involucri Cruris Stramineo	78 9 1	57 5 2	19 50 20	8 50 43	41 33 5 55 6
25		80 21 3	40 21 5	21 2 46	7 5 24	8 42 4 31 6
26		81 5 30	50 37 35	23 3 47	11 4 34	4 24 3 1 7
27		81 56 30	5 58 11	23 30 14	15 43 41	74 8 3 36 5
28	Duorum in Capite Borealis vel supra Caput	82 15 3	34 25 5	24 50 5	32 13 32	9 29 3 34 6
29		82 29 30	52 5 1	23 50 38	12 50 33	72 58 2 11 6
30	In dextro Brachio Ancone	82 30 0	59 30 0	25 35 15	41 7	74 11 22 5
31	Duorum in Capite Australior	83 30 30	35 47 55	25 36 21	49 2	52 1 5 4
32	In dextro Humero	84 12 30	45 8	25 35 31	11 8 1	74 4 45 2
33		84 15 0	44 8 20	25 4 12	11 5	74 1 1 1
34	In dextro Carpo	84 24 0	42 1 3	25 5 4	15 21	81 15 2 1 4
35		84 39 0	5 51 35	25 36 43	13 44 19	73 0 2 1 4
36		85 17 2	47 2 1	25 1 5	19 11 4	77 10 7 15 7
37		85 42 3	47 2 45	26 40 6	11 31 14	77 11 2 1 1
38		85 18 0	51 32 2	27 0 51	5 51	77 57 1 4 6
39		87 1 0	41 16 5	27 4 3	5 15 1	77 11 1 1 1
40		88 3 3	43 11 4	27 5 31	13 22	77 11 5 6
41		88 49 4	34 4	29 1 52	22 56 34	77 9 1 46 6
42	In Rinnale	88 74 0	2 2 35	29 2 41	6 4 47	77 34 42 6
43		89 12 3	36 18 1	29 27 23	2 57	77 21 0 37 6
44		89 17 3	40 36 4	29 11 4	11 54 2	77 5 1 4 5
45		91 44 2	43 1 5	30 17 9	14 54	77 3 1 1 6
46		91 17 2	59 21 1	31 17 1	1 3	77 12 1 1 1
47		91 17 1	61 47 5	31 18 15	4 4	77 12 1 24 5
48		91 17 1	47 17 2	31 20 12	16 4	77 3 1 1 5
49		94 17 5	5 23 3	32 4 11	10 5	74 47 1 1 5
50		94 18 40	4 53 2	32 26 25	16 4 44	75 9 1 1 5
51		94 41 0	0 49 5	4 6 29	5 4 56	75 21 1 1 1
52		95 1 0	61 31	4 14 48	4 33	75 1 1 1 6
53		95 8 4	4 1 5	3 1 1	1 22	78 41 1 5 5

In Constellatione AURIGÆ.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Varia. Asc. R.	Varia. Des. P.	Magnitudo
		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
	Quæ est	95 50 0 46 9 55	4 29 14 30 26 32 B	77 53 2 1				
		95 56 30 40 56 20	4 18 57 25 40 0	82 31 2 11				
		97 12 30 47 54 20	5 38 34 18 45 8	76 29 2 42 4.5				
		97 54 30 50 48 45	6 21 56 15 52 47	74 20 1				
		97 58 0 51 13 35	6 26 15 15 28 7	74 5 3 4				
		98 9 40 51 10 50	6 35 28 15 31 22	74 6 2 7				
		99 18 0 51 34 55	7 40 23 15 11 33	73 47 3 4 6.7				
		102 33 20 50 13 40	10 2 13 16 43 35	4 32 4 55 4				
		104 6 0 48 37 0	11 6 34 18 26 35	75 34 5 33 5				
		105 16 30 52 42 30	12 30 214 28 11	72 40 6 3 5				
		105 39 0 48 46 50	12 20 53 18 24 21 B	75 19 6 12 5				

In Constellatione LYNCEIS Heveliana.

1	Quæ in Gena dextra ad Oculum	87 22 30 28 27 20	11 28 24 42 38 4 30 B	99 1 1 20 5.1				
2	In Naribus præcedens	88 6 0 30 57 0	28 47 55 25 34 30	94 50 1 8 4				
		88 25 45 28 10 25	29 3 18 38 20 52	99 36 1 10 6				
3	In Naribus sequens	88 41 0 30 33 40	29 10 22 35 57 24	95 29 0 53 6				
		89 37 30 31 28 30	29 58 24 35 2 30	94 4 0 20 6				
		90 59 0 31 40 30	0 37 45 34 50 36	93 48 0 12 6.7				
		92 10 30 32 28 40	1 25 52 33 3 0	91 10 0 34 6.7				
		92 20 0 32 19 10	1 24 30 33 12 30	99 23 0 36 4.5				
		92 28 0 33 25 40	1 27 18 33 6 10	91 11 0 42 7				
		92 31 15 28 19 35	1 31 20 38 12 12	99 23 0 40 6				
		92 49 30 32 57 10	1 50 38 33 34 55	91 54 0 49 6				
		94 43 0 30 18 25	2 56 58 36 15 28	95 52 1 28 7				
5	In Collo inferior	95 19 10 32 34 30	3 26 57 34 0 20	92 2 1 53 6				
4	In Collo superior	96 27 30 30 15 5	4 2 53 6 21 20	95 52 2 20 5				
8	Ad Armum sinistram	97 36 30 31 14 10	4 49 56 35 24 30	94 1 1 50 5				
		98 45 20 44 33 50	6 37 22 22 9 14	79 6 3 21 6				
		100 30 0 38 47 30	6 23 27 37 57 30	98 0 4 1 7				
6	Ad Arem sinistram	102 12 15 29 53 0	7 35 23 6 57 17	95 54 4 44 6				
14	In Eductione Colli	104 28 0 34 11 40	9 36 55 32 48 19	89 22 5 39 5				
		104 38 0 39 18 30	10 25 2 27 44 14	83 25 5 45 6				
16	In Latere sequens	105 42 0 40 14 30	11 23 13 26 53 38	82 22 6 14 5				
		106 35 0 39 45 30	11 52 9 27 26 35	82 45 6 1 6				
12	Supra Cervicem	108 41 40 32 16 25	12 3 4 35 1 27	91 9 7 21 7				
		109 9 0 30 27 50	12 1 48 26 41 0	93 28 7 22 5				
		112 57 0 41 52 10	16 49 43 25 58 55	79 49 9 5 6				
15	In Terzo	113 0 0 41 40 30	16 49 39 26 10 45	79 56 9 6 5				
		116 17 0 37 39 10	18 18 4 30 21 26	82 2 10 20 5				
		116 41 0 45 53 35	20 25 38 22 30 3	75 54 10 31 7				
		117 59 30 29 32 10	17 14 0 38 38 50	92 47 10 58 5				
		118 45 0 31 22 55	18 15 52 26 6 50	89 47 11 14 6				
9	In Ventre	120 22 0 45 52 0	23 13 38 23 4 24	75 12 11 52 5				
12	Ad sinistram Genu posterior	122 22 0 52 33 40	27 10 49 17 3 25	70 30 12 56 7				
		123 40 0 52 34 0	27 25 26 17 6 24	70 26 13 2 6				
10	Ad Eductionem Caudæ præcedens	124 53 0 43 7 30	25 53 57 26 29 5	76 15 13 28				
11	Ad Eductionem Caudæ sequens	127 44 10 45 10 10	28 37 20 25 1 55	74 3 14 2 6				
17	In Cauda superior	133 21 15 45 32 10	2 58 45 25 49 36	72 21 16 15 5.6				
		134 45 30 37 29 0	1 1 15 33 45 11	77 32 16 40 6				
18	In Cauda Media	134 50 0 51 55 20	6 13 10 20 4 20	63 29 16 41 4				
		135 18 10 39 10 40	2 4 45 32 16 16 B	76 6 16 46 6				

STELLARUM INERRANTIUM.

In Constellatione LYNCIS Heveliana.

R.D.O.	STELLARUM Denominatio.	Ascensio Recta	Diffinitio a Polo B.	Longitudo	Latitudo	Varia. Afe.	Varia. R.D.P.	Magnitudo.
1.		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
1.	Quæ in Cauda Ultima	135 30 0 54 19 50	5 7 31 10	17 56 0 B	67 15 16 52	4		
		137 4 0 43 5 0	4 51 59 28	58 40	72 46 17 20	6		
		139 43 15 48 24 20	8 52 0 24 35 43	69 27 17 45	6			
		140 40 15 48 51 30	9 45 56 24 24 30	68 30 18 21	7.6			
		141 4 15 31 28 15	2 22 7 40 29 30	80 51 18 21	5.6			

In Constellatione LEONIS MINORIS Heveliana.

R.D.O.	STELLARUM Denominatio.	Ascensio Recta	Diffinitio a Polo B.	Longitudo	Latitudo	Varia. Afe.	Varia. R.D.P.	Magnitudo.
1.		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
1.	Quæ est	124 42 40 56 8 30	29 8 34 13 49 35	13 68 23 13 25	7			
		125 7 0 56 26 15	29 33 4 13 37 5	68 11 13 35	6			
		125 12 30 56 12 30	29 34 20 13 51 31	68 18 13 36	6			
4	In Drace Pedis fin. anterior.	125 40 0 56 59 25	29 51 59 13 7 25	67 51 13 39	7			
		127 53 0 55 36 0	1 38 9 14 59 28	68 9 14 30	7			
		135 20 0 53 31 0	11 0 41 9 21 57	63 23 17 7	6			
		137 59 0 55 0 45	9 45 57 17 54 6	66 25 17 35	6			
3 33	In Hiato Oris	138 9 0 53 33 30	9 25 17 19 19 30	66 59 17 38	5			
		138 36 20 52 10 0	9 18 57 20 45 37	67 31 17 46	4.5			
		138 45 45 52 15 35	9 28 32 20 42 40	67 27 17 48	4.5			
		139 13 15 52 49 25	10 2 12 20 17 40	67 6 17 56	6			
		139 45 20 53 19 5	10 28 15 19 57 53	66 49 18 3	5			
		141 2 0 53 31 20	11 44 27 20 6 25	66 20 18 26	6			
		141 44 0 43 28 20	11 17 21 29 42 34	69 19 19 24	6			
		142 11 0 42 33 55	8 20 33 30 50 6	71 23 18 44	6			
		142 46 40 48 36 50	11 26 32 24 52 19	67 52 18 55	6			
1	In Capite	143 22 0 50 50 0	12 37 33 23 25 41	66 56 19 6	6			
6	Cor minoris Leonis	144 33 30 56 10 20	15 33 48 18 34 48	64 30 19 21	5.6			
5	In Collo	144 38 30 47 29 45	12 18 40 26 43 22	67 57 19 22	5.6			
		145 45 0 56 35 0	16 41 39 18 32 12	64 6 19 38	6			
		147 14 30 53 16 15	16 39 30 22 4 0	64 53 19 59	5			
		149 17 30 57 0 40	19 46 56 19 11 22	63 9 20 26	6.7			
	In Ventre	149 37 30 59 10 15	20 52 52 17 16 42	62 21 20 31	5.6			
		149 43 0 59 47 20	21 11 25 16 43 48	62 13 20 32	6			
		150 37 0 46 37 0	16 30 33 29 12 8	66 23 20 42	6			
		151 15 0 53 14 35	19 52 50 23 17 4	63 51 20 50	6			
		151 18 0 54 33 0	20 27 27 22 5 25	63 23 20 51	6			
		151 32 30 54 44 15	20 43 50 21 59 26	63 26 20 55	6			
8	Ad Cervicem	151 57 0 53 1 35	20 21 16 23 41 56	63 42 20 58	6			
		151 59 30 54 39 5	21 3 44 22 12 35	63 11 21 0	5.4			
		152 26 15 51 43 40	20 11 36 25 2 43	63 58 21 5	5			
11	In Tergo præcedens	152 57 0 49 30 40	19 37 30 27 14 20	64 32 21 14	6			
		153 3 0 56 3 0	22 53 10 21 43 45	62 23 21 17	4.5			
		153 54 0 53 26 20	22 6 10 23 55 27	63 2 21 21	4.5			
10	In medio Corpore	154 36 0 52 5 10	22 4 40 25 23 15	63 14 21 28	5.6			
		155 1 0 54 20 0	23 23 31 23 27 32	62 30 21 35	6			
		155 16 45 56 26 0	24 29 50 21 36 28	61 51 21 38	3			
14	In sinistro Pede posteriore	155 22 30 50 29 40	21 58 50 27 5 17	63 27 21 37	6			
18	In extremitate Caudæ	155 46 0 50 52 50	26 43 30 17 39 52	60 40 21 44	6			
13	In Coxæ	156 30 0 52 6 45	27 50 24 16 46 16	60 14 21 51	6			
		156 36 45 55 12 25	29 9 15 13 56 46	59 32 21 52	5			
		157 7 30 57 42 10	26 33 43 21 2 47	61 5 21 57	4.5			
		157 53 30 58 58 15	27 44 520 8 14	60 35 22 3	6			
		158 8 30 60 24 15	28 32 32 18 54 13	60 16 22 6	6			
		158 55 30 60 30 15	28 24 50 19 4 43	60 16 22 7	6			

In Constellatione LEONIS MINORIS Heveliana.

ORDO	Stellarum Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Variæ Afc. R.	Variæ Da. P.	Magnitudo
		h m s	° ' "	° ' "	° ' "	h m s	h m s	
12	Quæ in Tergo sequens	158 56 45 159 24 30 159 25 10	54 7 40 54 19 40 62 55 55	51 26 30 4 26 58 10 0 40 4	24 55 30 B 24 53 50 4 17 0 55	61 27 22 14 61 15 22 18 59 28 22 19	4 5 6 6	
		159 47 0 159 53 0 162 7 0 162 33 30 163 1 45	70 12 30 62 51 30 63 8 0 62 48 0 63 41 5	3 52 8 1 52 10 3 4 0 3 18 20 4 4 56	10 25 39 17 14 40 17 46 40 18 14 26 17 35 54	58 6 22 26 59 10 22 29 58 53 22 38 58 51 22 42 58 38 22 48	6 6 6 5.6 6	

In Constellatione URSÆ MAJORIS.

1	1	Quæ in Kollro	121 2 30	28 18 30	51 18 40 32	40 12 34 B	93 33 12	14 5
2	2	Inser duos Oculos præcedens	121 38 0	23 51 40	17 19 15	44 33 0	101 42 12	13 5
3	3	Sequens f 1 ad	122 50 30	23 58 0	18 1 16	44 35 45	100 52 12	5
		2 ad	123 11 0	24 38 40	18 29 45	43 59 35	99 19 12	4.6
			126 52 15	26 55 45	21 33 52	42 19 35	93 16 14	5
			127 25 0	24 15 50	20 38 49	44 55 3	97 54 14	15 5
4	4	In Fronte duarum præcedens	127 46 30	28 1 0	22 34 8	41 26 0	91 6 14	24 5
12	13	In sinistro Pede, Borealis	128 31 0	21 13 20	19 39 10	47 54 45	104 08 14	41 5
34	36		129 28 0	40 46 50	28 30 42	29 34 32	76 44 14	58 4
5	5	In Fronte duarum seq. 1 ad	130 5 0	47 2 30	51 0 58	22 41 47	72 14 15	17 4
13	14	In sinistro Pede, Australis	130 10 0	21 56 0	20 53 6	47 28 50	101 20 15	14 5
7	7		130 35 0	41 39 20	29 36 58	28 57 10	75 43 15	22 4
15	15	Duarum in Collo præcedens	130 39 0	21 39 30	20 58 26	47 48 10	101 35 15	22 5
		2 ad	131 13 0	25 15 50	23 14 30	44 32 57	93 51 15	26 5
		Sub Genu dextro	131 42 0	37 10 50	28 47 52	33 25 56	78 56 15	41 5
14	16	Supra Genu dextrum	132 20 40	27 20 30	24 56 18	42 48 0	79 53 15	53 5
			133 9 30	32 0 20	27 37 40	38 35 8	83 25 16	7 5
			133 24 0	34 43 50	28 58 3	36 4 25	80 29 16	15 5
			134 1 0	54 6 15	51 6 14	28 17 47	67 40 16	27 6
			134 7 0	28 57 30	26 47 30	41 35 16	86 40 16	23 7
			135 53 0	34 41 10	51 0 35	38 36 36 25	79 30 17	0 6
8	8	Duarum in Collo sequens	136 18 0	16 28 35	20 3 0	53 16 0	112 19 17	4 7
6	6	In extremitate Auris præcedentis	136 38 50	25 38 0	26 28 10	45 7 4	89 52 17	10 4
12	12	In Genu sinistro	136 39 0	18 50 50	22 1 52	51 13 40	104 18 17	11 4.5
56			137 59 0	36 56 40	51 3 0	22 34 56 22	76 41 17	34 3.4
			138 21 0	26 36 10	3 6 16	35 20 58	76 50 17	40 5.6
			138 28 15	16 23 55	20 52 45	53 38 30	110 30 17	43 6
			140 24 0	24 57 0	28 8 0	46 25 17	88 31 18	15 5
9	10	Duarum in Pectore Borealis	142 9 0	29 31 40	51 56 42	42 39 6	81 31 18	42 4
10	11	Australis	142 41 0	34 30 40	5 0 17	38 14 10	76 33 18	51 5
			143 47 30	38 44 45	7 50 58	34 36 40	73 1 19	5 6
			148 46 15	23 22 45	1 27 56	49 27 18	84 32 20	19 5
20	21	Duarum in sinistro Pede posteriore præcedens	149 34 0	45 33 30	15 13 42	29 52 22	67 10 20	29 3.4
21	22	Sequens	150 56 0	46 58 20	16 54 47	28 58 10	66 6 20	47 3
			151 52 30	22 49 0	2 35 24	50 35 5	82 40 20	56 6
			152 36 15	32 27 0	10 15 6	42 30 0	72 48 21	7 5
			153 43 10	31 20 5	10 12 42	43 45 36	72 55 21	27 5
			155 47 40	22 40 40	4 6 21	51 24 22	79 55 21	27 5
			155 58 0	31 11 25	11 30 54	44 28 18	71 37 31	40 6
			156 34 15	31 28 15	12 5 36	44 23 27	71 32 15	50 6
			156 40 30	31 0 25	11 49 28	44 48 58 B	71 19 21	51 5.7

STELLARUM INERRANTIUM.

In Constellatione URSAE MAJORIS.

ORDO		STELLARUM Denominatio.	Rever. Dist.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Varia. Aste. R.			Varia. Dua. P.			Magnitudo
Prolog.	Typi.			0	1	2	0	1	2	5	0	1	2	0	1	2	1	2	3	1	2	
		Quæ est		157 55	C	29 2 50	51 11	5 52	46 48 30	B	71 47	22 1	5. 6									
				157 56	C	31 47 45	13 11	10	44 28 46		70 C	22 5	6									
				158 37	30	33 46 40	15 2	12	42 58 10		68 30	22 10	6									
				159 0	C	45 10 10	22 10	40	33 2 36		63 49	22 15	4. 5									
				159 30	45	54 51 0	27 17	27	24 27 23		61 7	22 20	6									
				160 27	31	47 55 50	24 43	55	31 2 12		62 28	22 26	6									
17	18	In Venire, in Quadrilatero 1 ^a	8	160 42	30	31 58 0	15 4	13	45 6 15		68 9	22 28	2									
16	17	SuperCostis, in Quadrilatero 2 ^a	α	160 50	C	49 8 15	25 38	16	30 4 26		62 2	22 30	6									
				161 2	30	26 34 50	10 50	0	49 40 5		71 12	22 32	1. 2									
				161 46	15	50 6 10	26 51	46	29 51		61 30	22 38	7									
23	23	In Poplite sinistro	↓	163 2	C	43 50 5	24 28	58	35 31 30		62 35	22 48	3. 4									
24	25	In dextro posteriore Pede	↓	165 23	C	56 44 20	11 3	0	36 24 46 0		59 9	23 6	4									
23	24	Austrina	↓	165 24	C	55 13 55	2 18	40	26 8 12		59 23	23 5	4									
		Borea	↓	165 30	45	50 7 30	12 29	51	52 45 50		60 15	23 6	5									
				166 25	31	44 49 30	27 37	44	35 46 22		60 57	23 11	6									
				168 4	C	48 57 15	11 15	28	41 32		59 33	23 20	6									
				168 26	45	45 7 30	12 29	21	36 11 48		60 3	23 22	6									
				170 25	30	44 40 0	11 0	35	46 37 16 47		59 20	23 32	6									
				170 27	45	41 27 30	12 28	32	20 40 3 51		59 48	23 32	6									
				171 8	15	54 2 40	11 6	25	42 29 14 51		57 51	23 35	6									
				171 19	C	56 32 50	7 52	57	27 5 24		57 35	23 35	6									
30			λ	172 24	C	40 30 5	12 29	20	16 41 31 58		59 2	23 40	4									
19	20	In sinistro Femore & in quadrilatero 3 ^a	γ	174 20	30	34 35 0	26 6	38	47 7 20		58 47	23 44	2									
				174 42	45	41 48 10	11 1	58	17 41 14 25		57 43	23 47	7									
				174 55	45	31 40 40	12 23	52	57 49 38 40		58 46	23 47	6									
				176 34	C	45 14 10	11 5	43	36 58 14		56 40	23 47	6									
				179 2	C	31 12 50	12 26	3	45 51 21 0		56 C	23 52	7									
18	19	In Educatione Caudæ, quadrilatero 4 ^a	δ	180 0	C	31 13 20	26 40	55	51 39 40		55 22	23 52	2. 3									
				181 25	30	30 24 10	26 42	52	52 45 22		54 19	23 52	6									
				182 32	15	31 29 45	28 36	6	52 18 16		53 35	23 52	7									
				182 39	15	33 7 0	11 0	21	33 51 6 10		53 35	23 52	7									
				183 11	30	22 33 30	0 8	50	51 43 6		53 13	23 52	6									
				183 50	30	29 52 45	12 27	38	39 53 57 20		52 34	23 50	6									
				186 41	45	25 34 30	23 50	40	57 55 26		49 21	23 42	6									
25	26	Trium in Cauda ab Educatione 1 ^a est	α	190 6	30	32 20 10	11 4	33	55 49 35		48 38	23 33	3									
						31 56 50							6									
26	27	Trium in Cauda Media	β	197 22	0	33 26 20	11 18	23	56 22 47		44 5	22 47	3									
			γ	198 13	0	33 22 30	11 28	50	56 33 30		43 50	22 43	5									
				200 33	45	33 3 20	12 46	50	57 42 40		42 15	22 23	5. 6									
		In Triangulo supra Ultimam Cauda procedens		201 57	0	35 29 30	16 53	55	36 25 50		42 36	22 10	6									
		Borea		202 15	30	33 44 10	14 55	24	57 50 24		41 35	22 6	6									
				203 45	15	34 0 0	16 24	23	58 13 34		40 51	21 51	6									
27	28	In extremitate Caudæ tertia	η	203 50	0	39 7 0	22 33	40	54 24 30		42 15	21 51	3									
				205 36	30	34 44 0	18 51	34	58 25 10		40 12	21 34	6									
		In Triangulo supra Ultimam Cauda sequens		205 37	C	23 44 C	11 0	31	55 21 38	D	31 31	21 56	5									

In Constellatione DRACONIS.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Varia. Af. R.	Varia. D. A. P.	Magnitudo.
31 31	Quæ in extremitate Caudæ est	168 7 40 169 20 30 171 8 30	18 58 0 18 57 40 21 33 10	5 58 30 6 28 20 10 35 20	57 13 3 57 30 30 56 6 30	70 7 58 44 65 12	23 17 23 23 23 31	3 4 6 6
30 30	Juxta Caudam	184 3 30 184 56 20 185 20 20	19 5 5 18 30 5 18 15 55	12 32 43 11 51 40 11 35 8	51 9 40 51 43 20 51 57 20	50 37 49 16 48 40	23 52 23 50 23 49	6 3 6
	"	188 37 20 190 40 20 191 57 20	21 30 30 22 52 25 21 43 40	18 32 21 45 20 22	561 4 10 0 53 45 48 51 57	45 15 44 40 42 50	23 40 23 31 23 25	6 6 6
28 28	Duarum (a 27 ^a 4, & 26 ^a 8) latius distantium præcedens est	205 37 0	23 44 0	10 31	565 21 38	31 31	21 36	5
29 29	Sequens	209 0 0	24 8 2	3 2 43	566 20 52	29 9	20 57	2
27 27	Puls (25 ^a 8, & 26 ^a 8) Occidentem versus in inflexione Caudæ	229 29 40	29 58 0	0 33	571 4 4	23 26	13 35	3
26 26	Duarum ad Occidentem tribus in recta (scil. 22 ^a 8, 23 ^a 8, & 24 ^a 8) succedentium, Australior	239 2 20	30 37 0	12 24	574 26 0	20 18	12 22	3
25 25	Borealiior	244 56 0	27 45 0	9 54	578 26 30	13 40	10 10	3
22 22	Trium deinceps in recta sequentium Australior	247 7 30 247 22 30 247 23 20	20 33 50 36 27 30 26 25 55	10 48 8 36 8 35	581 0 5 47 59 16 573 1 0	4- 25 5 25 5	9 17 9 16 9 16	4 5 5
23 23	Media	249 41 20	24 49 15	29 45	581 37 10	6 26	8 18	5
23 23	In Lingua	253 34 30 253 42 40 254 47 0	24 23 0 24 28 50 35 5 50	0 7 45 1 3 28 20 27 45	583 17 43 583 18 40 576 17 10	4 21 4 31 22 10	6 46 6 43 5 40	5 6 5.4
24 24	Trium distarum in recta Borealiior	257 2 30	23 54 10	28 39	584 47 0	2 23	5 22	5
3 3	Supra Oculum	260 56 0	37 26 50	7 45 46	585 19 55	24 11	2 52	3
2 2	In Ore duplex, 1 ad 2 ad	261 34 45 261 36 15 262 55 0	34 34 55 34 35 45 27 57 40	6 1 18 6 6 33 22 17 40	587 11 50 587 11 18 584 34 30	20 42 20 42 10 19	3 35 3 35 2 54	4 4 6
21	2 ^a ad Occidentem in Triangulo præcedente antecessens	263 16 0	21 40 40	21 59	586 50 45	4-45	2 47	5
20 21	Sequens Polo Eclipticæ proximo	264 37 0 265 18 0 266 27 0	21 6 30 15 36 35 39 7 25	8 13 33 9 5 40 19 24 36	586 52 10 581 58 33 574 11 20	6-42 30-23 25 42	2 13 1 50 2 0	4 6 6
17 17	Trium in præced. Triangulo (Secundum Draconis tractum) sequens, 1 ad	266 58 30	17 42 25	9 1 50	587 4 40	19-49	1 11	7
4 4	Ad Genam	267 5 0	33 3 30	20 29	588 0 19 40	18 20	1 16	3
5 5	Supra Caput	267 23 0 270 12 0 270 42 0 273 2 0 274 18 0	38 27 10 17 59 10 12 56 55 25 42 0 21 21 30	23 42 48 29 20 58 29 11 0 1 3 10 8 24 18	588 30 20 584 30 10 579 27 50 587 27 10 587 18 50	24 57 18-24 49-4 5-25 5-52	1 10 0 9 0 26 1 40 1 49	3 4 6 6 6
6 6	Trium in recta in prima inflexione Colli Boreæ	274 41 20 274 51 30 275 40 0 275 42 0 276 10 0	21 27 50 31 22 0 10 5 55 10 2 50 24 37 30	20 33 48 18 1 44 25 44 25 45 8 24	587 17 55 581 48 40 576 31 50 576 28 0 2737 14 20	5-32 15 57 78-32 79-21 3 10	1 58 1-58 2 37 2 37 2 37	6 5 5 5 6

In Constellatione DRACONIS.

ORDO		STELLARUM Denominatio.	Reclina- tio	Ascensio Recta		Distantia a Polo B		Longitudo		Latitudo		Varia. Afc. R.D.		Magnitudo								
Præf.	Tych.			O	P	"	O	P	"	S	O	P	"		1	2						
18	19	Que Reliquarum 2 ^a in præced. Triangulo Australior	♂	276	15	30	18	50	50	II	6	56	28	4	50	40	14-31	2	40	5		
	19	Borealis	χ	276	35	0	17	25	10		12	16	57	83	31	20	20-36	2	50	4		
8	8	Trium in recta (in flexura Colli) Media	d	277	7	30	33	10	50		12	24	56	79	44	44	18+44	2	54	5		
7	7	Australior	c	279	11	0	34	45	35	W	25	43	36	77	54	0	21	2	3	44	5	
9	9	Has ad Ortum sequitur	o	281	39	0	30	58	40	W	10	43	30	80	50	0	16	0	4	46	4	
				282	52	0	32	35	15		9	26	57	7	0		18+32	5	28	6		
				283	40	0	34	46	20		6	40	30	76	57	40	21+34	5	42	6		
				283	43	0	14	57	30		8	27	28	0	24	25	31-34	5	45	4		
				284	20	30	37	3	50		4	28	0	74	42	0	24	20	5	54	5	
15	14	Trium in Triangulo in flexura (a Quadrilatero juxta Draconis trahum succedente) præcedens	v	284	30	30	19	8	0	δ	16	8	58	3	11	30	11-29	6	44	5		
				286	26	30	33	39	5	W	15	12	6	77	13	48	20	37	6	44	5	
				287	8	0	32	48	45		18	44	27	77	44	20	19	38	6	58	5	
				287	11	0	34	31	35	W	29	26	6	82	57	20	13	38	2	51	6	
				287	52	30	13	58	55	II	7	7	25	79	0	6	35-46	7	27	6		
11	11	In Quadrilatero inflexionis primæ præcedentis lateris Boreæ	δ	288	5	0	22	53	0	γ	13	6	38	2	52	50	1	21	7	26	3	4
10	10	Austrina	π	289	47	30	24	52	40	W	22	22	35	81	48	30	6	40	8	1	4	
				290	1	20	13	59	0	II	5	7	40	78	39	16	34-34	8	20	6		
16	15	Reliquarum duarum in Tri- angulo (prima inflexionis quadrilatero juxta trahum Draconis) succedente Bo- realior	τ	290	15	30	17	14	30	δ	20	44	10	80	40	3	16-53	8	21	4	5	
14	16	Australior	σ	293	12	30	20	52	15	γ	27	9	35	80	55	14	2-21	9	26	4	5	
				296	48	0	17	42	10	δ	13	37	30	79	4	50	11-24	10	50	6		
12	13	In Quadrilatero inflexionis primæ sequentis lateris Boreæ	e	297	16	30	20	31	35	γ	28	31	40	79	27	40	1-25	10	58	5	6	
				299	36	0	26	2	10		2	7	18	77	28	10	12	37	11	45	5	6
				299	45	30	26	14	10		1	25	10	77	19	10	13	5	11	47	6	5
				300	11	30	28	53	30	W	22	0	87	5	47	46	17	42	12	0	6	
13	12	Australis	p	300	21	30	23	0	20	γ	16	13	43	78	7	40	6	39	12	4	5	
				301	37	0	28	51	5	W	23	42	52	75	15	20	18	11	12	26	6	
				301	44	30	14	29	10	δ	25	23	29	76	36	10	24-	4	12	35	6	
				302	38	30	25	59	30	γ	4	46	8	76	16	45	13	55	12	51	6	
				303	35	0	28	42	50	W	26	12	33	74	33	10	18	48	13	10	6	
				304	23	50	28	43	0		27	0	53	74	13	40	19	9	13	27	6	
				308	49	0	16	7	30	δ	16	38	8	75	18	45	8-46	15	0	5	6	
				311	24	0	10	2	0	II	7	5	0	72	47	20	46-52	15	48	6		
				311	29	0	9	40	50		8	6	48	72	36	50	50-52	15	36	6		
				315	38	0	8	39	30		10	6	20	71	33	46	56-	1	19	0	5	
				317	39	30	13	8	50	δ	25	48	54	72	35	20	14-	7	17	41	5	
				324	47	0	19	6	10		7	16	6	70	22	7	15	30	19	30	5	
				327	16	0	17	45	25	II	39	27	69	55	0		15	0	20	4	7	
				331	2	0	19	24	50		8	7	10	68	18	20	22	18	20	51	6	

N. B. Quod Variationes Ascensionum Rectarum signo (—) notatæ Negativæ sunt; i. e. Ascensionibus rectis datis subducendæ, reliquarum omnium affirmativæ & eis addendæ.

In Constellatione COMÆ BERENICES.

ORDO	Stellarum Denominatio.	Ascensio Recta	Distantia à Polo B	Longitudo.			Latitudo.			Variatio Anni.			Magnitudo.
				0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2				
	Quæ est	176 28 0 177 6 0 178 43 30	66 10 45 66 48 40 71 27 45	17 16 53 17 44 9 21 14 30	24 20 21 20 2 11 16 27 0	B	55 47 55 37 55 17	23 51 23 52 23 53	7 6 6				
		179 0 0 179 6 20 180 4 0	62 24 0 67 44 0 73 23 0	17 21 15 19 56 6 23 16 44	24 45 23 19 59 7 15 13 55		55 22 55 15 55 7	23 54 23 54 23 54	6 6 5				
Inf. 7	In Australibus Comæ prominentiis præcedens	b 180 10 0 180 55 0 180 58 0 181 2 0 181 15 30	64 19 45 65 14 25 60 6 25 59 48 45 70 29 35	19 18 19 20 24 12 17 56 28 17 50 59 22 5 51	23 28 33 23 56 57 27 34 35 27 51 56 18 19 52		55 42 54 56 54 54 54 55 54 56	23 54 23 54 23 54 23 53 23 54	5 7 6 6 5				
		e 181 43 0 f 182 10 30 b 182 42 30	62 25 40 62 10 40 61 0 45	19 45 29 20 2 23 19 55 44	25 47 32 26 11 47 27 26 54		54 46 54 40 54 21	23 54 23 54 23 52	5 5 4				
Inf. 6	Boreæ Congregatæ Nebulæ	c 182 51 0 d 182 51 30 183 21 0	60 0 30 61 27 10 62 22 10	19 32 24 20 16 55 21 10 29	28 24 2 27 6 50 26 29 11		54 27 54 37 54 23	23 53 23 53 23 52	4 5 4				
		183 28 6 183 29 0 183 31 0	64 10 25 61 10 20 67 22 50	22 9 44 20 41 32 23 42 26	24 54 50 27 36 36 22 2 38		54 25 54 20 54 20	23 52 23 51 23 53	5 6 6				
Inf. 8	Aust. in figura folii hederæ	g 183 52 30 184 32 0 k 184 51 0	63 42 55 64 0 20 65 39 55	22 18 15 23 1 59 24 7 12	25 29 10 25 29 11 24 7 9		54 19 54 12 54 13	23 52 23 52 23 50	5 7 4				
		184 53 30 185 21 0 185 54 40	69 54 45 71 11 35 67 13 25	26 7 23 27 6 49 25 48 38	20 17 57 19 19 12 23 8 10		54 21 54 20 54 6	23 50 23 49 23 47	5 6 5				
		187 47 30 188 11 0 188 21 0	71 43 25 74 45 0 74 10 55	29 34 49 1 16 5 1 10 20	19 48 42 17 12 57 17 49 0		54 22 54 10 54 7	23 43 23 42 23 42	5 6 5				
		188 31 30 189 7 30 189 11 30	60 45 25 60 45 45 71 13 45	12 24 57 25 30 24 0 38 35	29 58 24 30 12 24 20 49 4		53 7 53 0 53 49	23 40 23 38 23 38	6 5 7				
		189 14 10 189 30 0 189 30 0	11 11 45 61 3 30 67 3 35	0 40 52 12 59 52 28 59 44	51 56 30 5 31 24 42 42		53 48 52 57 53 25	23 38 23 37 23 36	7 5 4				
		190 53 30 191 19 30 191 27 0	70 54 45 57 32 0 71 11 20	2 3 55 12 43 43 2 42 22	21 46 56 35 35 21 45 14		53 33 52 8 53 28	23 31 23 30 23 27	5 6 6				
		192 48 20 192 48 30 193 4 0	67 10 0 65 42 40 60 42 10	2 5 7 1 22 51 12 29 2	25 55 56 27 14 39 42 31 49		52 51 52 43 52 33	23 21 23 21 23 19	5 6 5				
		193 43 0 194 19 30	70 49 25 60 32 30	4 38 35 0 6 31	22 59 12 32 28 32		53 6 51 46	23 16 23 12	5 5				

In Constellatione CANUM VENATICORUM Heveliana.

5	Quæ est	179 50 0	34 50 10	10 5 26	48 46 37	B	55 27 23	54 6
	In Pede Charæ anteriore sinistro	180 7 45	47 36 50	10 6 58	38 14 50		55 10 23	54 5
		181 7 0	39 17 20	4 51 45	45 37 30		53 42 23	54 6
		182 7 15	45 44 5	10 28 15	40 35 50		54 22 23	54 6
		182 13 0	6 43 10	3 28 28	48 6 07		54 22 23	53 6
4	Sub Capite Charæ, sequens ad Genam	182 37 30	49 15 25	13 13 43	47 45 58	B	54 15 23	53 5

In Constellatione CANUM VENATICORUM Heveliana.

ORDO		Hæc	Tribus	STELLARUM Denominatio.	Elevatio Polaris	Ascensio Recta.			Distantia a Polo B.			Longitudo.			Latitudo.			Variæ Afc. R. d. P.			Magnitudo		
o	°					"	o	°	"	o	°	"	o	°	"	°	'	"	°	'		"	
2			Quæ est In Fronte Charæ, vel sub Cauda Urse Majoris, præ- cedens		183	51	0	36	44	40	11	4	40	48	40	20	B	53	7	23	51	7	
					184	44	15	46	57	10	13	26	0	40	33	2	53	20	23	50	4.5		
					185	57	0	47	24	35	14	44	48	40	37	30	52	54	23	48	6.7		
					187	33	30	49	2	0	17	11	33	39	51	30	52	27	23	44	6		
1	29		In Annulo Armiæ Charæ, inferius, sub Cauda Ur- se		188	26	15	39	50	0	10	59	54	47	56	40	50	58	23	30	6		
					190	21	15	50	0	0	20	13	22	40	7	18	51	34	23	32	5		
					191	19	30	57	32	0	25	43	4	33	56	36	52	8	23	20	4.5		
					192	47	0	52	31	40	23	59	56	39	0	24	51	3	23	21	5		
8			In Tergo Charæ		193	51	30	49	48	15	23	7	40	41	40	15	50	21	23	15	6.5		
					193	56	45	49	37	15	23	4	40	41	51	44	50	19	23	15	6		
					193	57	0	49	50	25	23	13	58	41	40	35	50	19	23	14	6		
					194	4	30	47	32	50	21	42	17	43	40	35	49	51	23	12	6		
					195	25	0	47	29	40	22	47	30	44	14	12	49	20	23	6	7		
					195	54	30	47	46	35	23	27	40	44	12	24	49	12	23	3	6		
					196	15	0	38	40	40	15	54	2	51	47	6	46	51	22	59	6		
					196			36	47	0												6	
					196	36	45	48	12	40	24	24	54	7	2	49	1	22	57	7			
					200	27	0	39	23	5	20	1	0	52	0		44	57	22	26	5.6		
					200	53	15	42	7	0	11	23	3	2	50	51	40	B	45	44	22	25	5

In Constellatione BOOTIS.

		Que est				201	28	0	68	27	30	10	51	56	28	11	26	B	51	37	22	18	6		
						201	35	15	65	55	20		9	43	34	30	32	0	51	8	22	19	6		
						202	11	0	62	43	40		9	29	53	33	59	20	50	14	22	5	6		
21	12	Media trium in sinistro Crure Australis	T			202	7	30	70	59	15		13	37	30	26	52	8	51	50	22	2	4		
22	14		v			203	38	0	72	39	0		14	51	57	25	12	47		52	40	21	58	4	
						203	45	30	67	11	0		12	26	17	30	14	38		51	22	1	57	5.6	
20	12	Borea				204	36	0	70	31	30		14	50	20	27	31	38		51	32	21	48	7	
			n			204	58	40	70	1	40		14	58	32	28	7	35		51	24	21	45	3	
						205	36	0	60	58	30		11	0	28	36	33	10		49	21	21	28	5	
			e			206	1	30	56	47	30		14	27	1	31	28	30		50	33	21	34	7	
						206	46	30	61	6	47		12	13	53	56	53	16		49	9	21	25	7.6	
			d			209	3	0	63	25	40		15	42	4	25	41	3		49	17	21	0	5	
						209	12	30	39	4	0		11	27	9	24	56	34	48		40	42	30	54	6
						209	47	30	75	34	20		12	8	42	24	51	0		52	0	20	50	6	
						204	55	15	78	25	25		23	26	32	22	15	20		52	35	20	50	6	
Inf.	15	Infer Femora Arcturus	α			210	22	30	69	11	0		11	59	53	52	30	57	0	50	26	20	43	1	
1	1	Trium in sinistra Manu, præcedens	x			210	38	0	36	45	0		11	25	35	53	58	4	44		38	46	20	36	4
4	4	In sinistro Brachii Antæ				211	4	0	75	33	10		12	23	23	52	25	10	15		51	54	20	36	6
			λ			211	9	30	42	28	40			2	37	58	54	39	20		41	34	20	32	4
						211	16	0	72	15	50			21	11	11	20	27	0		51	5	20	45	5
2	2	Trium in sinistra Manu Media	f			211	20	0	37	11	10		11	26	46	0	58	51	50		50	40	30	28	4
		Trium in sinistra Manu se-				212	0	30	69	22	20		12	22	38	0	31	45	14		50	10	20	6	5
3	3	quens	θ			213	42	0	36	42	10		11	28	14	0	60	10	4		37	17	19	58	4
			κ			214	29	0	38	45	40		1	35	46	58	55	5		38	12	19	46	7	
18	18	Dextrum in Cingulo præcedens	p			214	36	30	58	14	40			18	25	50	42	27	57		46	20	19	45	4
						214	36	30	66	21	50			22	49	5	35	6	13		49	6	19	40	7
5	5	In sinistro Humero	γ			214	53	0	50	19	25			13	18	18	49	33	0		43	45	19	40	3
17	0	Dextrum in Cingulo sequens	σ			215	17	25	58	52	40			19	21	22	42	8	24	B	46	44	19	37	5

In Constellatione BOOTIS.

ORDO	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Varia. Afc. R.	Varia. D. & P.	Magnitudo
16	Que est	216 32 10	72 13 40	227 30 6	30 23 18	50 28	19 19	4
19	In dextro Calcaneo	216 34 30	74 55 20	28 40 21	27 53 42	51 11	19 19	5
		216 36 30	80 29 50	0 53 28	22 41 32	52 39	19 18	5
		216 41 30	76 59 50	229 37 33	25 59 55	51 43	19 17	6
		216 50 0	44 14 30	9 58	25 27 39	40 20	19 12	6
		217 26 45	62 8 20	23 26 22	40 0 9	47 22	19 5	6
17	Ad dextrum Femur in perizomate	217 41 30	71 43 0	28 27 45	31 17 7	50 11	19 0	4.5
16		217 51 0	61 36 5	23 44 35	40 38 21	47 618	52	3
18		219 16 0	69 35 40	29 10 33	33 47 28	49 25	18 37	4
		219 34 0	42 34 30	11 2 48	57 54 1	38 30	18 30	6
		219 47 30	39 50 20	8 17 10	60 4 0	36 49	18 27	6
12	In Manu dextra	221 56 0	49 28 30	30 6 13	52 40	41 24	17 51	5
6	In Capite	222 7 30	62 45 5	29 26 43	40 11 33	47 8	17 51	5
		222 35 0	48 22 10	19 53 41	54 10 38	40 41	17 44	3
13	Duorum in Carpo præcedens	222 47 30	61 49 40	29 10 20	42 11 40	46 20	17 39	5
13	In extremo Manubrio Baculi	223 22 0	41 8 30	13 26 11	50 32 57	36 17	17 28	6
15		223 24 0	62 54 25	0 54 32	40 29 15	47 0	17 20	5
14	Duorum in Carpo sequens	223 43 0	62 29 35	0 34 22	41 54 43	46 26	17 25	6
		223	40 38 10					
10	Duorum in Baculo Boreali	225 22 30	59 40 10	0 51 10	45 4 7	45 516	55 5	3
7	In dextro Humero	225 46 30	55 30 20	228 48 8	49 0 10	43 15	16 47	3
8	2 ^a sub humero in Baculo Boreali	227 22 30	55 56 0	0 54 25	49 10 10	43 9	16 19	5
8	In Baculo recurvo	228 13 0	51 31 5	228 51 13	52 26 56	40 52	16 24	4
	Adhuc Boreali in ex-	229 56 45	48 5 30	26 9 25	52 5 56	38 37	15 29	6
9	tremitate Baculi, { 1 ad	230 10 30	48 1 30	27 22 27	57 14 17	38 30	15 24	6
	2 ad	231 42 30	48 37 0	0 45 33	57 14 45	38 29	14 55	6

In Constellatione CORONÆ MINORIS.

	Que est	226 50 0	59 14 0	2 1 10	57 52	44 39	10 30	6
2	Omnes præcedit	227 35 30	59 34 30	2 44 45	46 49 30	44 16	16 13	5
3	Hanc sequitur	228 45 0	59 43 5	4 45 52	46 4 40	44 25	15 52	4
1	Lucida est Coronæ	230 6 30	57 34 20	5 5 20	48 34 50	43 23	15 27	4.5
		230 24 0	62 13 20	7 55 56	44 21 17	45 21	15 18	2.5
		231 0 0	49 57 0	0 58 43	55 48 50	32 24	15 9	5
5	Lucidam sequitur ab Austro	231 59 0	52 20 10	3 58 22	53 59 31	40 31	14 49	4
4	Adhuc tertius (8) Boreali	232 26 0	62 41 45	10 31 50	44 32 13	45 15	14 41	4
6	Sequitur 5 ^a in propinquo	232 57 0	56 28 50	7 50 41	50 30 2	42 24	14 31	5
		234 9 0	61 52 15	12 38 14	44 53 5	45 5	14 7	4
		234 54 0	53 21 30	8 17 34	53 59 43	40 30	13 51	5
		236 7 30	51 7 45	8 18 21	56 25 22	39 9	13 26	5
7	Post præcedentes sequitur	236 11 30	62 12 0	14 46 15	45 6 27	44 33	13 25	4.5
8	Omnes sequitur in Coronæ	237 15 30	59 15 40	14 39 38	49 11 21	43 3	13 35	5.6
		237 18 0	51 44 20	12 48 24	52 20 42	41 20	13 16	6
		239 26 0	52 42 15	13 42 51	55 57 45	39 20	12 16	6
		240 47 0	55 19 50	17 4 43	53 52 41	40 37	11 47	6
		241 5 0	60 2 15	19 51 15	49 28 0	42 58	11 41	6
		242 30 30	58 21 40	20 54 10	51 27 0	41 57	11 10	5
	1 ad	242 41 45	55 26 45	19 40 56	54 16 30	40 24	11 5	5
	2 ad	249 49 30	55 42 15	29 43 33	55 30 26	39 50	8 24	5

In Constellatione URSE MINORIS.

1	Que in extremit. Caudæ, Polaris	8 17 30	2 21 20	24 14 42	46 4 10	161 28	23 35	3
		9 39 30	3 26 30	21 43 37	65 42 54	121 33	23 20	6

STELLARUM INERRANTIUM.

In Constellatione URSE MINORIS.

ORDO	Procl.	Tych.	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Varia. Asc. R.	Varia. Decl. P.	Magnitudo
				0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
			Quæ est	211 24. 0	13 56 55	7 9 4	70 4 54	B 4 33	20 24	6
				213 46 30	11 0 40	238 23 24	70 29 38	14-30	19 49	5
				217 15 0	12 56 20	4 1 9	71 25 20	8-46	19 0	4
				221 10 32	16 45 31	16 17 33	72 31 44	2 30	18 0	7
				223 5 30	14 35 20	8 55 8	72 58 26	8-27	17 25	3
				224 47 0	13 2 20	3 26 50	73 6 34	18-39	16 55	6
				225 9 0	17 2 15	17 19 48	73 40 40	2-10	16 52	7
				226 57 0	14 56 10	9 39 20	73 59 44	10-53	16 17	7
				229 26 0	17 3 50	17 14 17	74 16 0	4-40	15 30	5
					17 40 20					7
				230 24 0	17 4 20	17 10 28	75 13 1	5-26	15 13	3
					15 27 20					7
				235 17 30	11 49 50	26 22 26	74 45 48	39-53	13 28	5
				239 4 30	11 47 40	23 2 55	75 6 50	49-0	12 6	4
				240 51 30	13 23 55	29 47 50	76 42 40	32-8	11 35	7
					9 3 0					6
				245 8 0	13 22 30	26 29 28	77 24 15	36-51	9 57	5
				245 15 30	14 2 0	28 51 45	77 50 55	32-14	9 54	6
				246 20 0	13 33 40	26 18 23	77 44 15	36-21	9 28	5
				259 33 0	7 32 45	4 55 25	73 53 8	120-42	4-58	4
				287 43 0	3 35 10	26 49 30	69 54 10	118-45	6-20	3
				288 9 0	3 14 30	27 6 23	69 34 25	359-10	6-15	7

N. B. Quod Variationes Ascensionum Rectarum signo (—) notatz Negativæ sunt; i. e. Ascensionibus rectis datis subducendæ, reliquarum omnium affirmativæ & iis addendæ.

In Constellatione HERCULIS.

28 27	Quæ in dextro Cruce	X	235 29 0	46 39 15	11 3 49	76 0 15	50 13 36	26 13 38	6
			236 2 30	45 56 0	3 52 38	61 5 21	35 49 13	28 6	5
			236 15 0	84 39 10	22 32 54	24 32 30	52 8 13	28 6	5
			236 18 0	46 30 25	4 45 22	60 39 50	36 7 13	24 6	6
			236 51 0	71 17 35	19 10 30	37 36 4	48 14 13	12 3	3
			238 21 0	43 4 20	4 2 40	64 22 30	33 15 12	39 5	5
			238 30 30	72 5 50	21 21 26	37 14 57	48 25 12	32 5	5
			238 41 30	71 56 25	21 31 03	26 46	48 21 12	34 5-6	5
			239 29 30	84 8 45	25 53 03	57 24	52 55 12	17 6	6
			239 27 30	65 39 30	20 23 23	43 43 47	45 43 12	12 5	5
			239 48 0	44 13 30	7 18 26	63 49 36	33 46 12	7 6	6
			239 55 20	81 19 45	25 28 13	28 37 50	51 51 12	8 6	6
			240 6 0	77 42 0	24 51 30	32 12 5	50 30 12	34 5-6	6
			240 7 30	45 19 40	8 51 35	62 56 30	24 32 12	1 7	7
			240 21 0	77 47 10	25 9 50	32 10 29	50 30 11	58 6	6
			240 25 30	70 22 40	23 1 34	39 22 42	47 38 11	58 6	6
			240 46 0	66 2 30	21 55 12	43 38 47	45 45 11	58 6	6
			241 10 30	65 36 25	22 15 23	44 9 6	45 32 11	40 7	7
			241 23 30	63 19 0	21 38 12	46 25 22	44 24 11	32 6	6
			242 3 0	70 5 35	34 51 33	40 2 6	47 22 11	22 3	6
			242 15 45	82 17 40	28 26 42	28 11 37	52 8 11	18 6	6
			242 40 0	42 55 10	11 10 4	11 55 53	0 12 12	11 5 4	4

CATALOGUS BRITANNICUS

53

In Constellatione HERCULIS.

ORDO	STELLARUM Denominatio.	Bayer Char.	Ascensio. Recta.			Distantia à Polo B.			Longitudo.			Latitudo.			Varia Astr. R.			Magnitudo.		
			°	'	"	°	'	"	°	'	"	°	'	"	1	2	3	4	5	6
	Que est		242 47 30			56 54 50			11 30 34	16		52 54 8			41 11	11	4	5		
		a	242 48 0			75 13 30			27 15 23	52 12 43		49 24 11			5	6				
			243 36 30			51 52 50			18 51 52	57 53 1		53 12 10			45	5				
2	In dextro Humero ad Axillam	g	244 4 30			56 35 10			22 7 8	53 32 6		47 5 10			37	7	6			
			244 12 20			67 50 5			26 44 46	42 42 41		46 15 13			32	3				
			244 19 30			83 46 50			7 1 2	30 27 9	17	52 45 10			33	6				
		b	244 29 25			77 49 5			17 12 54	20 58		50 22 10			26	4				
		g	244 39 0			47 24 45			22 58 10	54 30 32		35 10 20			2	5				
			244 59 30			55 43 0						40 18 10			14	7				
			245 22 30			58 49 30			24 53 27	51 41 37		41 5 10			6	6				
			245 24 0			82 13 30			1 53 55	53 53 5		52 110 9			6	6				
			245 29 30			40 20 50			11 22 46	59 1 38		19 2 10			1	6				
24	In dextro Femore Borealiore	g	246 4 0			46 54 30			18 55 56	53 11 48		24 34 9			4	4				
			246 17 0			85 10 5			3 28 51	26 9 17		53 8 9			4	1				
			246 17 45			85 8 30			3 29 16	26 10 57		53 8 9			4	1				
			246 32 30			84 29 30			3 27 46	26 51 56		52 55 9			44	6				
			247 15 0			62 27 30			18 46 42	42 35 12		43 31 9			21	5				
11	In dextro Latere	g	247 23 30			57 48 30			27 8 45	43 7 15		41 9 9			19	3				
			247 27 45			83 17 0			4 24 22	38 12 57		52 25 9			19	6				
			247 39 15			40 26 40			15 2 49	52 34 5		29 3 9			11	5				
		i	247 43 15			80 49 0			4 1 41	41 20		51 26 9			15	5	6			
23	In Eductione dextri Femoris	h	248 2 30			50 27 40			24 22 0	19 47		34 44 9			4	3				
		e	248 7 0			84 9 40			5 17 58	27 27 43		52 44 9			4	5				
			248 9 30			61 2 40			29 28 15	50 8 42		42 45 9			3	7				
		k	248 48 0			82 1 45			5 41 8	29 31 45		51 57 8			49	5				
			249 17 0			59 28 20			0 24 25	51 54 0		41 50 8			36	6				
			249 31 0			74 28 30			4 56 36	37 14 25		48 47 8			31	6				
			249 37 30			59 38 30			0 56 35	51 48 6		41 53 8			27	5				
			249 45 0			64 47 40			2 46 51	46 47 23		44 27 8			24	5				
			250 5 30			42 27 25			22 22 42	57 26 19		31 17 8			15	5	6			
			250 17 10			57 45 20			1 8 22	53 46 0		40 51 8			12	5				
			250 25 0			71 2 10			5 15 14	40 46 35		47 16 8			10	5				
			250 28 30			71 3 40			5 20 6	40 45 2		47 16 8			8	5				
			250 33 20			63 44 0			3 30 59	47 53 30		43 53 8			7	6				
12	In sinistro Latere		251 10 0			64 8 20			4 26 19	47 40 50		44 3 7			51	6				
			252 5 30			58 35 40			3 56 56	53 10 12		41 6 7			28	3				
13	Hac Borealiore, in Femore sinistro	d	252 31 30			55 57 20			3 37 33	55 56 8		39 37 7			18	6				
			252 46 0			76 48 5			9 15 30	35 26 50		29 40 7			14	6				
14	In Eductione sinistri Femoris	e	253 34 30			54 7 20			4 27 5	57 54 35		38 25 6			53	6				
			253 54 0			65 4 50			8 1 4	47 11 37		44 20 6			48	6				
			254 16 0			62 21 0			8 5 6	48 56 30		42 58 6			38	6				
1	In Capite	a	255 8 35			75 13 40			11 50 30	19 15		48 55 6			17	3				
5	In sinistro Humero	b	255 33 0			64 46 25			10 23 30	47 43 45		44 7 6			7	4				
8		a	256 1 30			78 49 40			13 25 3	53 55 6		50 4 5			57	6				
15	Trium in sinistro Femore præcedens	g	256 2 30			52 48 45			7 41 12	59 35 30		37 24 5			54	3	4			
		h	256 28 0			56 12 10			0 24 22	55 54 24		39 40 5			44	5				
16	Sequens	e	256 44 0			52 21 20			8 35 30	50 8 35		37 5 5			3	4	5			
			257 0 0			65 9 40			12 24 6	47 31 47		44 15 5			31	4				
			257 6 0			65 9 40			12 32 8	47 32 37		44 15 5			30	5				
		h	257 14 0			57 6 15			1 51 41	55 31 7		9 57 5			26	6				
			257 47 30			66 43 15			12 44 20	46 4 9		44 58 5			12	6				
			257 56 0			43 26 35			7 6 17	48 6 2	50 B	10 19 5			7	6				

In Constellatione HERCULIS.

ORDO	STELLARUM Denominatio.	Ascensio Recta.	Distancia à Polo B.	Longitudo.	Latitudo.	Varia. Asc. R.	Varia. D. à P.	Magnitudo.
Pos.		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	5 0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
17 15	Quæ Trono in sinistro temore tata	253 15 0	52 32 0	11 2 2	60 10 40 B	37 5	4 37 4	
6 4	In sinistro Brachio	259 31 20	63 37 10	15 31 28	49 20 16	43 22	4 29 4	5
2 18	In Pede sinistro et in præcedenti	259 41 15	41 28 0	8 21 53	71 14 30	38 23	4 23 6	
		52 45	61 20 0	15 26 47	51 38 40	42 10	4 22 6	7
		21 6 45	65 26 35	17 57 36	47 38 7	44 15	3 48 6	
		261 32 15	42 25 10	12 39 6	70 33 13	39 9	3 36 4	
		1 33 30	42 25 30	12 41 46	70 33 0	29 9	3 36 4	
21 19	Mediæ	262 11 0	41 13 0	13 19 16	71 48 46	27 57	3 0 6	
		262 27 45	65 14 40	19 45 6	47 58 13	44 4	3 17 7	
		262 35 30	65 20 30	19 57 29	47 42 59	44 14	3 13 7	
19 17	In superiore parte sinistræ Tibiæ	262 40 0	43 48 5	15 31 16	69 18 49	30 18	3 12 4	
7 -	In sinistræ Brachii Anticæ	263 34 0	62 4 10	20 54 26	51 12 38	42 25	2 49 4	
22 2	In Pede sinistræ Iurium sequens	264 1 15	64 14 35	21 46 10	49 4 10	43 33	2 37 6	
		1 3 3 30	41 30 15	20 29 30	1 49 53	28 5	1 57 6	
		2 5 47 20	43 51 55	20 0 45	49 31 40	43 21	1 56 6	
13 16	In Genu sinistræ est	265 47 0	49 54 20	22 45 51	63 28 20	34 58	1 52 6	
10 10	In sinistræ Carpo trium Aulicæ	265 22 30	52 40 40	24 5 50	60 43 40	36 53	1 38 4	
		266 24 0	60 41 10	24 48 40	52 43 56	41 38	1 41 4	
	<i>J. Herol. Cerberi, 2^a</i>	266 50 0	73 12 50	25 36 37	40 12 58	47 49	1 37 5	
9 9	In sinistræ Carpo trium Boniæ	266 38 30	59 45 20	25 6 0	53 40 15	41 8	1 33 5	
	<i>J. Herol. Cerberi, 1^a</i>	267 2 0	68 22 0	26 5 36	45 4 30	45 34	1 24 4	
	<i>Cerberi, 4^a</i>	267 13 0	69 8 0	26 21 50	44 18 54	45 55	1 19 5	
		267 14 30	67 2 20	26 27 16	44 24 48	44 55	1 15 5	6
		268 11 0	67 46 40	27 35 24	45 41 24	45 15	0 55 5	
		268 47 30	59 27 0	28 13 40	54 1 32	40 56	0 37 5	
		268 48 10	63 54 50	28 20 23	49 33 40	43 22	0 39 6	
		268 48 20	69 58 10	28 27 43	1 23	46 19	0 35 5	
		268 50 0	69 11 30	28 28 36	44 17 6	45 57	0 38 4	
8 8	In sinistræ Carpo trium sequens	268 51 0	61 15 0	28 21 13	52 13 35	41 56	0 38 4	
		27 2 0	53 38 30	28 2 28	54 50 3	40 27	0 9 4	5
		271 19 10	65 39 0	1 47 5	47 49 30	44 14	0 25 5	
		271 48 0	68 8 0	2 22 36	45 2 6	45 26	0 34 5	6
		272 11 45	61 14 15	3 8 34	52 13 5	41 55	0 46 6	
		272 13 0	60 14 20	3 12 54	53 13 10	41 20	0 47 6	
	<i>J. Herol. Cerberi, 3^a</i>	272 27 45	68 20 10	3 27 49	45 6 55	45 33	0 56 4	
		278 4 30	69 43 30	10 27 34	27 54	46 17	3 13 4	5
		278 18 45	72 7 25	10 30 48	41 5 43	47 24	3 17 4	
		279 45 3	68 55 0	12 43 44	44 8 8	45 57	3 55 5	
		280 25 10	67 42 50	13 45 17	45 16 8	45 24	4 11 5	

In Constellatione SERPENTIS.

ORDO	STELLARUM Denominatio.	Ascensio Recta.	Distancia à Polo B.	Longitudo.	Latitudo.	Varia. Asc. R.	Varia. D. à P.	Magnitudo.
Pos.		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	5 0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
		22 25 45	8 54 20	11 7 38	45 1 0 52 B	54 43	18 20 7	
		221 3 0	88 53 5	8 42 7	16 21 50	51 42	18 7	
		224 57 2	83 51 25	10 27 31	11 11 0	53 11	17 46 7	
		225 1 0	80 27 45	12 4 8	1 23	54 3	17 3 6	
		225 52 0	87 2 3	12 3 0	19 27 6	54 5	16 42 6	
		225 19 30	84 8 1	13 17 4	3 6	54 25	17 39 6	
		226 56 45	70 19 21	1 1 4	59 11	50 4	16 27 7	
		226 57 0	80 51 4	11 16 4	48 P	54 48	15 28 7	

In Constellatione SERPENTIS.

ORDO		STELLARUM Denominatio.	Borealis Cauda	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Varia. Varia. Asc. R. D. & P.			Magnitudo	
Part.	Tribus			0	1	2	0	1	2	0	1	2	0	1	2	0	1	2		
		Quæ est Post dextrum Femur. Ser- pentarii	1	250	56	15	102	29	40	11	7	23	9	44	45	60	0	8	4	6
13	17			255	51	0	102	29	30	15	57	39	10	18	11	60	0	8	6	4
		Duarum sequentium Au- stralior	2	256	5	15	102	40	10	16	12	46	10	8	59	60	13	5	58	5
14	18			259	58	0	105	9	30	20	13	23	7	59	5	61	26	4	22	4
		Borealis	0	261	3	0	102	38	35	21	7	9	10	33	51	60	19	3	55	5
15	19			266	2	0	93	37	40	25	47	32	19	47	52	56	32	1	52	3
16	11	Post dextram Manum in flexu Caudæ	2																	
		Hæc sequitur in Cauda	3	271	19	40	92	56	40	25	1	31	20	31	56	56	16	0	24	3
			d	272	51	20	89	57	15	3	6	51	23	29	53	55	1	1	0	6
			e	273	23	50	92	9	0	3	38	32	21	17	24	55	56	1	13	6
			c	274	0	0	91	11	20	4	19	14	22	14	31	55	32	1	29	6
			d	280	5	30	83	45	20	11	31	28	29	19	27	52	29	3	57	6
			e	280	12	30	86	10	0	11	26	15	26	54	41	53	29	4	4	3
18	13	In extremitate Caudæ	4	280	25	30	87	50	5	11	31	42	25	13	45	54	10	4	8	6

In Constellatione SERPENTARII vel OPHIUCHI.

7	7		Quæ duarum in sinistra Manu precedens	3	239	52	0	92	52	0	27	58	15	17	17	15	56	1	12	17	3
8	2		Sequens	e	240	20	50	93	54	15	29	10	45	16	28	20	56	24	11	58	3.4
21			Trium in recta in sinistra Tibia Australis	4	241	30	30	97	38	55	1	0	58	20	13	0	57	48	1	35	5
				d	241	31	20	109	16	10	3	14	18	1	36	9	62	18	11	37	5
				e	241	47	30	112	41	30	4	7	58	1	42	35	63	44	11	30	5
				f	242	15	50	84	9	35	14	53	5	26	22	14	52	51	11	18	6
21			Trium in recta in sinistra Tibia Media	2	242	18	15	107	42	30	1	3	40	25	3	16	61	43	11	18	6
20			Trium in recta dictarum Boreæ	0	243	22	45	105	53	45	4	21	26	5	14	41	61	3	10	55	4
22	6		Cavum tangit finitri Pedis In Ancone finitri Brachii	4	243	29	30	110	45	35	5	19	53	0	38	40	63	4	10	52	5
				h	243	42	30	87	18	40	1	15	38	23	35	38	54	1	10	44	4
				i	244	19	45	83	47	35	1	3	21	27	8	34	52	40	10	32	6
19	12		In finitro Genu	7	245	1	30	91	37	45	3	23	19	19	34	17	55	38	10	16	6
				8	245	1	55	99	54	20	4	53	55	11	25	27	58	47	12	17	3
				9	246	24	45	88	11	50	4	17	45	23	12	24	54	18	9	43	6
				10	246	54	45	112	33	0	8	45	56	0	45	20	64	4	9	35	6
				11	247	26	0	88	22	35	5	20	32	11	30	10	54	22	9	20	6
				12	247	43	45	80	49	10	4	12	41	30	41	18	51	26	9	14	6
				13	247	45	0	114	2	55	9	45	21	2	7	1	64	49	9	16	7
				14	247	53	15	87	20	40	5	38	12	24	17	4	53	58	9	10	6
				15	248	9	45	100	11	55	8	3	51	11	38	0	58	58	9	65	6
				16	248	55	15	88	13	5	6	54	17	23	35	16	54	19	8	47	6
				17	249	3	45	112	57	25	10	47	13	0	51	43	64	24	8	45	7
				18	249	30	15	95	36	40	8	42	16	16	22	1	57	12	8	34	6
				19	249	33	45	112	46	45	11	13	3	0	37	1	64	22	8	32	7
4	4		Duarum in finitro Humero precedens	1	249	49	30	79	17	50	6	17	51	31	32	16	51	11	8	29	4
				2	250	19	30	114	27	10	12	8	21	2	11	0	65	14	8	16	6
5	5		Sequens	3	250	44	30	80	7	0	7	30	12	31	52	20	51	5	8	3	4
				4	250	59	0	115	12	35	12	49	55	2	51	17	65	35	8	3	6
				5	250	59	10	108	22	0	11	56	42	3	55	50	62	29	8	1	6
				6	251	10	30	93	43	15	10	9	17	18	28	21	56	29	7	56	6

Constellatione SERPENTARII.

Constellatione SERPENTARII.																						
ORDO		STELLARUM Denominatio.	Regra Class.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Varia. Afc. R.		Varia. Dra P.		Magnitudo		
Pos.	Trin.			0	1	2	0	1	2	3	4	5	0	1	2	1	2	3	4		5	
		Quæ est		251	11	0	115	9	30	7	13	0	15	2	46	40	A	65	35	7	55	6
				252	5	15	75	26	10	8	13	21	36	42	0	B	49	8	7	36	6	
				253	22	15	75	55	40	8	38	8	36	15	20		49	18	7	23	6	
12	12	In dextro Genu	n	252	25	45	75	57	50	8	42	45	36	13	35		49	18	7	22	6	
			A	253	10	0	105	18	0	13	38	46	7	13	53		61	12	7	8	3	
				254	4	10	116	5	50	15	42	14	3	24	9		66	13	6	49	6.5	
				254	27	0	79	0	0	11	36	21	33	29	37		50	32	6	35	6	
14		De quatuor in dextro Pede præcedens	p	254	37	15	116	14	35	16	12	47	3	29	39	A	66	19	6	34	5.7	
				254	46	30	113	53	55	16	6	17	1	8	53		65	11	6	36	6	
				255	37	30	110	44	10	16	33	55	2	4	43	B	63	45	6	10	4	
15		In dextro Pede Clara se- cunda	0	255	38	45	90	4	0	14	25	4	22	38	32		55	3	6	5	6	
				255	44	15	114	38	20	17	3	11	1	47	47	A	65	37	6	6	4.3	
				255	57	0	117	47	25	17	33	5	4	54	47		67	11	6	2	4.5	
16		In dextro Pede tertia	B	256	51	40	113	50	15	17	59	54	0	54	3		65	15	5	40	5.4	
				256	52	0	119	31	50	18	31	16	6	34	12		68	10	5	44	6	
				257	14	0	75	26	20	14	22	27	37	21	14	B	48	58	5	28	6	
				257	24	45	102	11	20	17	38	40	10	44	52		60	2	5	25	6	
				257	44	30	76	48	30	15	11	14	36	2	45		49	33	5	15	6	
			σ	257	47	15	85	32	20	16	15	52	27	20	49		53	12	5	15	5	
17		De quatuor in dextro Pede reliqua		258	0	15	113	32	35	19	0	57	0	31	20	A	65	11	5	11	7.2	
				258	8	40	113	40	55	19	9	15	0	38	23		65	12	5	7	6.5	
18				259	11	0	111	46	45	19	57	38	1	19	59	B	64	23	4	41	6	
				259	57	15	80	9	50	18	11	13	32	54	27		50	55	4	21	6	
				260	1	15	76	25	30	17	53	59	26	28	22		49	25	4	19	6	
1	1	In Capite	α	260	7	45	77	11	15	18	5	32	35	53	16		49	41	4	17	2	
9	9	In Ancone dextri Brachii	μ	260	11	45	76	37	15	18	6	51	35	27	27		49	25	4	15	6	
			D	260	30	0	97	53	50	20	14	37	5	15	51		58	17	4	1	4	
				261	12	0	111	29	15	21	48	44	1	44	45		64	18	3	53	6	
				262	1	15	111	40	40	22	35	9	1	36	1		54	26	3	34	6	
2	2	Duarum in dextro Humero præcedens	β	262	2	30	85	16	5	21	0	44	27	53	0		53	3	3	29	3	
				262	15	0	87	13	40	21	22	46	26	1	24		53	52	3	24	6	
3	3	Sequens	γ	263	5	30	87	8	35	22	18	32	26	9	20		53	51	3	4	3	
				263	58	15	114	46	14	24	31	30	1	24	8	A	55	56	21	43	5	
10	10	In dextra Manu præcedens	ι	265	29	16	99	42	0	25	25	16	13	42	45	B	59	6	2	5	4	
				265	34	15	107	56	15	25	46	1	5	38	51		62	43	2	0	6	
Inf. 1	22	Trium ad Ortum a dextro Humero Borea	n	266	13	30	85	34	35	25	44	33	27	51	3		53	10	1	44	4.5	
Inf. 2	23	Media	o	266	16	45	87	1	15	25	51	19	26	24	31		52	46	1	44	4	
Inf. 3	24	Austrina	k	266	30	30	88	39	5	26	9	17	24	47	7		54	28	1	4	4	
21	11	In dextra Manu sequens	τ	266	32	50	98	8	30	26	27	33	15	17	31		58	26	1	38	5	
Inf. 4	25	Tres hæc sequitur quasi su- pra Mediam	p	267	26	30	87	23	35	27	9	16	26	3	54		53	57	1	15	4	
Inf. 5		Solitaria ræ quatuor Bore- alissima	S	268	6	45	81	16	15	27	47	41	32	11	53		51	21	1	0	6	
19		Clavus ad	S	268	9	35	80	26	45	27	49	43	33	1	25		51	1	0	56	6	
			q	268	32	30	86	2	15	28	21	39	27	26	14		53	23	0	49	6	
			r	271	20	20	86	44	0	28	1	29	49	26	44	36	B	53	41	0	22	6

In Constellatione LYRÆ.

ORDO	Polar.	Tith.	STELLARUM Denominatio.	Hæc Dist.	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Vari. Afc. R. d. a P.			Magnitudo				
					h	m	s	h	m	s	h	m	s	h	m	s	h	m	s					
			Quæ est	x	272	15	30	54	2	35	W	3	35	39	59	24	42	B	37	44	0	49	5	
				μ	273	30	0	50	38	0		5	55	19	52	46	40		35	29	1	22	6	
1	1		In Testa fulgida dicta <i>Lyræ</i>	x	276	36	0	51	28	25		10	57	18	61	45	31		36	8	2	37	1	
2	2		Duarum huic adjacentium Boreæ	h	278	30	0	50	37	35		14	17	42	62	26	5		35	39	3	24	5	
				h	278	30	20	50	41	10		14	17	17	62	22	31		35	42	3	24	6	
3	3		Austrina	h	278	30	40	52	41	20		13	46	55	60	23	13		37	0	3	25	5	
				h	278	31	10	52	42	15		13	47	29	60	22	16		37	2	3	25	5	
8	8		Duarum in jugimento præ- cedentium Austrina, 1 ad	h	279	34	0	57	30	40		14	19	42	55	29	48		40	2	3	50	6	
		2 ad		h	279	35	0	57	46	30		14	17	58	55	13	58		40	11	3	50	6	
7	7		Duarum in jugimento Boreæ	h	279	40	0	56	57	50		14	25	30	56	1	48		39	44	3	52	3	
		1 ad	Mediæ inter Auctonem } Cornuam }	h	280	42	30	53	24	20		17	3	51	59	26	39		37	35	4	17	4	
4	4			h	280	54	30	53	08	0		17	21	39	59	21	54		37	45	4	22	4	
		2 ad		π	281	27	30	46	26	0		20	54	46	56	13	6		32	47	4	38	6	
9	9		Duarum in jugimento se- quentium Boreæ	γ	281	50	0	57	42	10		17	37	0	55	3	28		40	15	4	44	3	
10	10		Austrina	λ	282	5	10	58	15	55		17	50	36	54	28	15		40	35	4	52	6	
				ρ	283	9	0	52	28	45		21	10	46	60	2	21		37	11	5	45	6	
				σ	283	55	30	57	56	25		20	35	18	54	33	2		40	30	5	36	6	
				τ	284	3	10	54	21	20		21	54	8	58	3	44		38	24	5	40	5	
				υ	284	58	40	51	12	25		24	33	11	61	0	13		36	25	6	7	6	
5	5		Duarum contiguum ad } Ortum, a Testa Boreæ }	π	285	48	0	51	21	35		25	46	19	60	42	55		36	40	6	24	6	
6	6		Austrina	θ	286	24	0	52	23	25		W	26	14	11	59	36	20	B	37	23	6	36	6

In Constellatione AQUILÆ cum ANTINOO.

			Quæ est <i>J. Hevel. Scuti 2^a</i>	h	274	34	20	98	25	25	W	4	40	57	14	59	7	B	58	34	1	41	4
			<i>Scuti 4^a</i>	h	276	19	40	99	18	0		6	26	14	14	2	30		58	58	2	26	5
				n	276	29	25	98	32	35		6	48	32	14	46	57		58	39	2	33	5
				h	277	17	30	88	13	20		8	3	025	3	26			54	19	2	51	5
				h	277	38	0	91	15	25		8	14	5	22	0	29		55	34	3	0	6
			<i>Scuti 7^a</i>	l	277	42	0	95	2	35		8	4	40	18	13	27		57	8	2	58	4
				h	278	42	45	93	35	0		9	14	7	19	37	16		56	32	3	26	6
				k	278	46	5	93	38	40		9	17	24	19	33	22		56	34	3	27	5
			<i>J. Hevel. Scuti 1^a</i>	k	280	6	40	96	12	40		10	20	35	16	54	11		57	37	4	15	4
				h	281	8	15	76	28	50		12	30	29	36	28	51		49	25	4	27	6
				h	281	12	45	75	45	35		13	33	55	36	11	45		49	32	4	29	6
				i	281	17	0	96	8	5		11	44	42	16	53	33		57	36	4	30	4
Anti	7			h	281	23	10	75	19	15		13	16	58	37	36	43		48	55	4	34	3
				h	281	39	0	94	6	30		12	17	25	18	52	40		56	43	4	38	6
9	10		Sub Cauda Aquilæ	h	282	9	0	94	27	15		12	46	59	18	29	26		56	54	4	50	6
				h	282	28	0	95	15	35		13	2	15	17	39	36		57	12	4	57	3
Inf. 6. As			Informium præcedens	h	282	47	10	76	34	0		15	28	34	36	13	48		49	29	5	8	3
9	9		Sub Cauda tangit Galaxiam	h	283	5	15	79	22	25		15	27	48	33	24	32		50	41	5	15	6
				h	283	26	30	84	22	35		15	14	46	28	23	48		52	46	5	24	6
				h	283	58	30	98	25	15		14	16	37	14	22	17		58	30	5	34	5
				h	284	30	50	88	12	5		15	58	34	24	28	45		54	20	6	49	5
				h	285	17	0	85	40	25		17	8	30	26	54	11		53	18	6	6	6
				h	285	41	25	89	27	30		17	5	48	23	5	48		54	51	6	17	7
				h	285	44	30	90	11	20		17	3	34	22	21	55		55	9	6	18	7
				l ad	285	48	25	78	55	45		18	42	18	33	31	53		50	34	6	20	6
				f	285	59	30	95	57	40		16	36	51	16	36	9		57	28	6	22	6
				h	286	8	50	91	26	10	W	17	20	5	21	4	44	B	55	40	6	28	6

In Constellatione AQUILÆ cum ANTINOO.

ORDO		STELLARUM Denominatio.	Reyger Class.	Ascensio Recta.			Distantia d. Polo B.			Longitudo.			Latitudo.			Varia. Afr. R. Del P.		Magnitudo			
Ptol.	Tych.			0	1	2	0	1	2	0	1	2	0	1	2	1	2		3		
		Quæ est	A	286	17	25	78	10	0	W 19	23	33	34	13	27	E	50	14	6	33	6
			u				79	0	20											7	
Inf. 3	44	A dextro Humero Africum versus	b	287	27	42	87	28	15	19	17	21	24	50	54		54	4	6	59	3
			b	287	34	15	78	41	10	20	48	4	33	32	5		57	29	7	2	6
Inf. 4		A dextro Humero Austrum versus	c	287	39	45	90	14	45	19	6	42	22	4	17		55	10	7	4	5
			d	287	59	30	94	20	28	18	53	27	17	57	38		56	46	7	12	6
			e	288	18	45	93	53		19	27	21	18	22	46		56	36	7	23	6
			f	288	19	45	88	38	50	20	3	35	23	34	0		54	32	7	21	6
			g	288	36	30	93	24	0	19	39	55	18	49	10		56	22	7	27	6
			h	289	37	25	101	11	55	10	29	24	10	58	21		59	21	7	48	6
7	7	Duarum in dextro Humero precedens	i	289	43	30	83	14	50	22	27	58	28	42	30		52	27	7	57	4
Inf. 5	43	Australior 5 ^a Informium	k	290	2	45	97	40	45	20	31	47	14	23	3		52	6	8	0	34
			l	290	5	15	93	35	35	21	10	48	13	25	21		56	27	7	50	6
Inf. 4	42	A dextro Humero Austrum versus	m	290	9	45	91	56	15	21	30	47	0	2	59		55	51	8	23	4
			n	290	19	15	95	18	0	21	9	4	16	42	0		57	9	8	7	4
			o	290	32	15	92	9	3	21	51	2	19	45	29		55	54	8	10	6
8	8	Duarum in dextro Humero sequens	p	290	57	50	85	16	30	23	28	56	26	30	44		53	13	8	23	5
			q	291	11	0	91	18	35	22	41	22	20	31	4		55	34	8	26	6
			r	291	55	0	73	29	52	52	3	3	2	3		50	32	8	4	6	
			s	291	59	20	78	32	19	5	52	2	1	39	24		40	8	47	6	
			t	292	31	40	77	24	27	26	48	3	4	0	6		50	6	9	1	6
			u	292	38	10	83	6	40	25	44	15	8	22	4		52	22	9	2	6
5	5	Duarum in sinistro Humero precedens	v	292	52	20	80	6	35	26	37	8	31	16	52		51	12	9	8	3
			w	293	25	30	101	30	55	22	18	26	10	5	20		59	34	9	19	5
	6	Sequitur	x	293	31	0	78	55	20	27	36	29	32	19	49		50	44	9	2	6
3	3	Inter Humero Lucida u μετα φηω	y	293	54	0	81	54	55	27	23	24	29	19	11		51	52	9	30	1
4	4	Huic propinquæ ad Septen- trionem	z	294	2	0	8	19	35	27	53	1	30	51	20		51	20	9	34	5
Inf. 1	45	Ad Austrum a Capite Aquilæ precedens	aa	294	10	0	89	45	30	26	6	54	21	33	23		54	58	9	36	2
			ab	294	19	0	99	20	4	24	33	2	12	5	11		58	41	9	45	5
			ac	294	27	15	99	0	10	24	44	54	12	24	10		58	23	9	44	6
			ad	294	42	15	90	3	10	26	32	27	20	43	43		55	17	9	49	6
2	2	In Collo est	ae	294	47	30	82	18	20	28	17	56	28	46	12		52	5	9	53	5
			af	295	1	0	84	19	55	28	6	1	6	44	2		52	55	9	57	3
6		Sequitur Lucidam	ag	295	22	35	79	22	5	29	36	57	31	32	17		51	10	5	6	
			ah	297	5	45	91	32	25	28	50	1	19	16	1		53	37	10	47	6
1	1	In Medio Capite	ai	297	14	10	83	14		29	42	27	27	2	16		52	4	10	47	6
			aj	298	0	0	91	3	2	W 19	47	31	2	27			55	11		6	
Inf. 2	41	2 ^a ad Austrum a Capite Aquilæ sequens	ak	298	49	20	91	42	31	35	3	18	45	35			55	43	11	2	3
			al	299	18	0	91	54	15	1	2	1	18	12	7		55	5	11	2	5
			am	299	58	50	75	43	2	5	47	3	34	1	12		49	47	11	48	5
			an	302	2	0	94	21	0	4	17	4	1	15	5		56	27	12	1	6
			ao	303	21	15	93	13	5	4	43	44	1	1	39		50	26	12	58	5
			ap	305	7	45	93	35	40	0	35	14	15	31	49		56	1	13	34	5
			aq	305	34	45	92	9	55	7	24	2	16	48	36		55	48	13	45	4

In Constellatione SAGITTÆ.

ORDO	Tribo.	STELLARUM Denominatio.	Proper. Dist.	Ascensio Recta			Distantia à Polo B.			Longitudo.			Latitudo.			Variat. Asc. R. D. & P.			Magnitudo.	
				0	1	2	0	1	2	0	1	2	0	1	2	1	2	3		
		Quæ est		285	28	45	69	17	0	220	0	8	43	7	45	46	20	6	12	6
				287	35	45	73	38	15	21	45	45	38	31	25	48	21	7	4	6
				287	42	0	73	37	25	21	53	27	48	31	18	48	21	7	7	6
			*	290	48	0	74	12	15	25	29	42	37	27	9	48	44	8	20	5
4	4	Trium in Arundine præcedens	α	291	33	10	72	40	5	26	45	16	38	49	52	48	4	8	40	4
5	5	In Extremitate Glyphidis	β	291	46	30	73	12	50	26	53	23	38	45	17	48	44	8	42	4
			γ	292	23	20	72	12	0	29	4	40	38	56	52	47	59	9	18	4
3	3	Trium in Arundine Media	δ	293	48	0	71	36	10	29	43	47	39	27	5	47	46	9	27	6
2	2	Trium in Arundine sequens	ε	294	38	0	72	5	30	0	35	41	38	48	23	43	2	9	49	6
			ζ	295	28	45	74	9	30	1	2	13	36	36	54	48	58	10	7	6
			η	295	54	45	74	1	5	1	34	53	36	39	43	48	57	10	17	6
1	1	In Cuspide solitaria	θ	296	14	20	71	19	5	2	42	58	30	13	39	47	47	10	23	4
			ι	296	30	5	73	18	15	2	28	63	14	3		48	37	10	30	6
			κ	297	19	30	74	48	50	3	0	24	35	35	6	49	18	10	50	6
			λ	297	32	10	73	44	30	3	34	10	36	35	2	48	52	10	54	6
			μ	297	50	50	70	52	10	4	46	28	39	18	22	47	43	10	59	6
			ν	299	3	41	69	59	0	6	29	53	39	52	58	47	29	11	27	6
			ξ	300	40	45	69	19	45	8	27	48	40	7	17	47	10	12	9	6

In Constellatione VULPECULÆ & ANSERIS Herciana.

22	22	Quæ in Ala dextra Anseris	285	43	15	69	7	30	W	20	20	24	43	15	10	B	46	16	6	18	5
27	27	In Ancone Alæ Austrinæ Anseris							Hevel.	21	47	10	44	49	26		45	31	6	39	6
22	22	In Capite Anseris	287	31	30	64	18	15		23	47	36	47	46	35		44	3	7	4	6
24	24	Sub Ala dextra Anseris	287	57	35	70	47	45		22	47	43	41	16	27		47	7	7	14	6
			288	10	0	70	29	15		23	7	12	41	32	42		47	0	7	18	6
1	1	In Nalo Vulpeculæ anteq Rostrum Cygni	288	56	30	65	55	50		25	12	34	45	54	20		44	57	7	36	4
			288	57	15	70	19	9		24	7	59	41	34	28		45	58	7	27	5
			288	59	20	65	20	25		25	25	43	46	28	37		44	42	7	38	6
			290	14	45	70	52	45		25	35	50	40	49	26		47	16	8	7	6
2	2	Ad Genem, vel in Capite ad Oculum Vulpeculæ	292	41	30	64	56	4	W	0	18	38	46	10	32		44	44	9	5	6
3	3								Hevel.	2	41	40	47	28	3		44	4	9	38	
7	7	In Pede anteriore dextro Vulpeculæ	294	25	30	68	8	55		1	28	49	42	41	50		46	19	9	45	5
6	6	In Collo præcedens	295	3	45	66	41	50		2	43	29	43	58	26		45	42	9	58	6
			296	28	0	67	42	40		4	7	19	42	40	56		45	17	10	29	5
4	4	Supra Tergum	297	24	0	63	4	4		6	31	37	47	1	43		44	15	10	45	5
27	27	Ad Pedem anteriorem fini- strum	297	12	30	65	54	15		5	39	1	44	15	50		45	33	10	48	5
21	21	Ad Arum finistrum præ- cedens	292	23	0	67	15	0		6	36	4	42	41	12		46	14	11	13	4
			299	23	30	63	59	20		9	2	51	45	34	54		44	52	11	36	5
			299	42	0	64	5	20		9	24	14	45	24	28		44	57	11	42	6
			299	44	30	64	35	10		9	19	24	45	4	48		45	6	11	44	5
			300	21	10	62	12	5		10	59	20	47	2	8		44	10	11	56	5
8	8	Ad Arum finistrum sequens	300	31	10	67	24	40		9	7	45	42	0	27		46	9	12	0	5
13	13	Supra Tergum sequens in finis	300	42	45	63	6	20		11	3	12	46	5	20		44	38	12	4	5
9	9	In Latere præcedenti	300	52	15	66	15	15		9	58	47	43	1	53		46	0	12	8	5
10	10	In Latere sequenti	302	10	30	66	30	50		11	26	23	42	26	36		45	5	9	35	6
12	12	In Coxendice ad Ventrem	305	42	30	65	10	0		16	10	4	42	45	11		46	4	13	49	6
			305	57	30	64	35	30	W	16	42	41	43	12	32	B	45	51	13	53	5

In Constellatione VULPECULÆ & ANSERIS Heveliana.

ORDO	STELLARUM Denominatio.		Bright. Class.	Ascensio Recta.		Distantia a Polo B.		Longitudo.		Latitudo.		Varietas, Afr. R. D. & P.		Magnitudo.
	Procl.	Hev.		0	1	0	1	0	1	0	1	0	1	
		Quæ est		306 16 15	66 56 30	14 56 30	18 7 7	43 50 14	0 6					
16		In sinistro Pede posteriore		306 18 0	69 51 40	14 56 30	18 7 7	43 50 14	0 6					
14		In Femore		307 51 0	65 48 45	13 22 34	11 30 54	46 24 14	3 6					
18		Ad Educationem Caudæ Au- strina	1	309 42 0	64 2 30	21 18 12	42 37 9	45 51 5	8 6					
19		Prima Caudæ, vel ad E- ductionem Boreæ	9	310 19 30	62 5 35	22 28 25	43 18 42	45 47 15	21 5					
17		In Pede dextro posteriore		311 5 45	68 51 0	20 45 43	37 39 42	43 51 5	34 6					
				314 15 30	67 25 30	22 4 51	37 59 50	47 55 16	33 6					
20		Ultima Caudæ		318 29 20	62 43 15	21 1 14	40 0 20	47 12 17	48 6					

In Constellatione CYGNI.

9	Quæ trium in dextra Ala Boreæ	287 28 30 287 56 30 288 8 30	37 10 45 60 57 25 65 23 5	10 38 18 25 18 47 24 16 45	73 50 11 50 57 30 46 05 40	25 0 7 42 11 14 44 24 15	5 4 5 5 2 6
1	In Ore	288 42 30 289 59 0 290 1 30	54 16 30 60 51 55 56 9 45	28 51 20 26 55 24 29 56 17	57 27 44 42 0 31 55 15 18	38 20 14 43 13 15 39 58 3	37 5 3 6 2 6
8	Trium in dextra Ala Media	290 27 30 291 8 0 291 45 30	38 54 25 53 42 55 60 31 55	13 42 43 2 37 16 0 26 10	71 28 30 57 23 26 50 30 58	27 19 8 38 40 8 42 22 8	14 6 3 6 4 6
7	Trium in dextra Ala Austrina	292 1 30 292 20 0 293 15 0	40 28 25 47 52 5 43 22 5	14 28 4 7 54 4 5 50 42	69 37 56 62 42 5 7 15 9	29 5 8 35 3 9 28 43 9	50 4 3 6 7 6
22	In Ancone Alæ dextræ	293 23 0 293 38 30 294 48 0	40 10 25 56 57 55 45 35 45	17 1 8 4 36 37 11 57 7	69 30 50 43 42 33 7 4 27	29 4 9 40 50 9 35 3 9	23 6 27 5 32 4
6	In medio Colli	294 52 0 295 42 30 296 9 0	52 2 50 37 46 25 55 42 45	8 53 2 24 15 34 8 37 2	58 7 13 70 53 26 54 13 48	33 71 9 27 13 10 40 25 10	56 6 5 6 0 6
3		296 9 0 296 44 30 297 6 0	52 19 35 16 58 22 52 46 45	10 31 27 4 48 24 10 53 10	57 31 43 7 10 15 55 54 29	33 29 10 22 37 10 39 27 10	2 6 4 6 4 6
2 ad		297 6 0 298 8 30 298 42 0	52 46 45 41 43 55 54 1 0	10 53 10 23 44 12 12 30 29	55 54 29 57 33 40 54 28 16	39 27 10 30 35 11 40 11 11	4 6 5 6 5 6
2 ad		299 26 30 300 42 0 300 52 30	54 2 4 54 6 50 44 5 5	13 57 4 15 34 41 23 46 1	55 1 40 54 36 33 53 43 29	39 57 12 40 10 12 33 55 12	5 6 5 6 5 4
15 15	Du rum in dextro Pede præcedens, Sequens	300 57 0 301 27 30	44 10 20 43 12 5	23 47 58 25 31 56	38 3 3 54 13 53	33 55 12 33 21 12	5 4 2 5 6
16 16		301 27 30 301 34 30 301 39 30	43 12 5 52 54 0 55 57 40	25 31 56 17 29 14 15 44 12	54 13 53 55 29 20 52 36 15	33 21 12 41 18 12 40 11 12	2 5 6 5 6 5 6
4	In Pectore	302 50 20 304 0 30 304 10 0	58 47 15 5 33 6 6 38 20	15 42 22 2 51 58 16 24 20	40 36 33 5 4 46 17 28 53	42 52 12 39 52 13 43 54 13	5 6 1 6 17 4
17	In Genu dextro	304 22 0 304 42 20 304 54 30	54 33 10 41 27 0 41 27 0	20 7 53 1 22 17 1 22 17	7 6 6 41 46 6 41 46 6	41 0 13 32 52 13 32 52 13	2 6 3 5 3 5

STELLARUM INERRANTIUM.

In Constellatione CYGNI.

ORDO		STELLARUM Denominatio.	Borealis	Ascensio Recta.		Distantia a Polo B.		Longitudo.		Latitudo.		Variatio Asc. R. D. & P.		Aequinoct.						
Part.	Tab.			0	1	2	0	1	2	3	0	1	2		3	0	1	2		
		Quæ est		304	47	30	54	4	55	220	50	54	53	25	24	40	50	13	31	6
			2 ad	305	6	30	42	4	0	H	1	46	7	64	2	31	33	24	13	4
			3 ad	305	26	37	41	48	20		2	31	4	64	10	7	33	17	13	45
				305	27	30	55	47	15	220	37	10	51	38	16		41	48	13	44
				306	13	0	59	29	25		19	28	17	47	57	16		43	30	14
				307	6	0	58	46	25		20	54	55	48	21	23		43	28	14
5		In Cauda splendida	α	307	40	30	45	48	0	H	1	1	32	59	56	37		36	3	14
				308	10	0	40	44	50		7	17	30	64	4	18		33	14	14
			ε	308	11	40	60	23	20	221	21	39	46	30	26		44	21	14	30
10	10	In Ancona sinistrae Alæ	•	308	24	0	57	9	50		23	22	5	49	26	21		42	55	14
11	11	In medio ejusdem Alæ	λ	308	49	0	54	37	30		25	26	47	51	38	37		41	4	14
				309	34	37	45	0	55	H	4	8	54	59	57	10		35	28	15
				309	45	20	47	4	55		2	22	50	58	5	31		37	55	15
				310	33	50	46	45	35		3	39	19	58	5	13		37	5	5
13	13	In sinistro Pede	•	311	23	30	50	0	0		1	51	21	44	56	25		39	5	15
			1 ad	312	18	20	43	39	55		8	49	9	60	6	19		36	30	16
				312	34	40	45	2	25		7	42	10	58	50	19		37	2	16
				313	14	30	52	44	25		1	57	3	51	50	35		41	4	6
14	14	In Genu sinistro	ε	313	24	45	47	17	0		6	32	3	56	36	5		38	58	16
			2 ad	313	53	13	43	34	20		10	50	41	59	33	40		36	57	16
12	12	In Extremitate Alæ sinistrae	ζ	314	55	45	61	1	20	228	44	26	43	43	13		45	37	16	46
Inf. 1	17	Duarum sub sinistra Alæ Austrina	τ	315	36	0	53	15	15	H	4	16	38	50	32	40		42	32	16
				316	17	0	56	23	0		2	57	2	47	29	10		44	3	17
Inf. 2	18	Borea	σ	316	18	20	51	32	50		6	3	45	51	30	45		42	3	17
			Δ	316			47	19	55											
				318	2	0	54	38	50		6	41	4	48	25	8		43	43	17
				318	40	0	54	12	20		7	1	15	48	34	55		43	38	17
			ε	319	30	0	44	47	50		15	39	45	56	25	36		39	23	8
				320	31	0	52	49	50		9	59	28	49	7	0		43	30	18
			ρ	320	35	0	45	45	10		15	53	18	55	12	21		40	14	18
				321	7	0	50	57	30		12	1	23	50	32	2		42	50	18
				322	0	0	48	6	35		15	15	52	52	29	30		41	48	18
				322	16	0	50	35	0		13	31	55	50	25	21		43	1	18
				322	28	0	50	19	15		13	56	49	50	34	26		42	55	18
				322	24	0	62	38	40		6	8	0	39	32	15		47	29	18
							53	6	55											
			1 ad	322	47	0	40	12	20		24	1	45	18	52	37		57	54	18
			2 ad	323	51	0	42	6	15	H	23	17	18	57	12	6	1	39	13	19

In Constellatione DELPHINI.

		Quæ est		303	51	30	80	6	55	220	8	49	5	28	54	8	1	51	35	13	10	0
1	1	Trium in Cauda præcedens est		304	35	20	79	43	20		9	44	2	19	6	1		51	25	13	24	3
8	9	Inter Caudam & Quadrila- terum præcedens		304	48	45	78		35		10	30	6	3	42	6		50	54	13	29	6
9	8	Reliquarum duarum Borea- riorum præcedens		305	12	30	76	22	25		11	27	4	32	10	27		50	19	13	17	5
2	2	Trium in Cauda Borealis		305	44	30	79	40	40		11	0	10	28	51	3		1	3	13	0	6
4	4	Austrina præcedentis Late- ris Quadrilateri		305	45	0	76	27	35		12	1	14	31	56	32		50	22	1	48	3
3	3	Austrina trium in Cauda		306	0	30	80	58	40		10	54	6	27	31	40		51	58	13	54	6
10	10	Inter Caudam & Quadrila- terum sequens		306	1	0	77	44	55	221	11	54	5	30	38	14	1	50	51	3	54	6

In Constellatione DELPHINI.

ORDO		STELLARUM Denominatio.	Right Asc. H. M. S.	Ascensio. Reclia. 0 1 2 3 4 5 6 7 8 9 10 11 12	Distantia a Polo B. 0 1 2 3 4 5 6 7 8 9 10 11 12	Longitude. 0 1 2 3 4 5 6 7 8 9 10 11 12	Latitude. 0 1 2 3 4 5 6 7 8 9 10 11 12	Variat. Afr.	Variat. D. d P.	Magnitude.
Procl.	Typo.									
5	5	Que Borea precedens Lateris Quadrilateri	α	306 18 0 306 41 15	75 9 30 76 29 33	13 3 24 13 2 25	33 2 58 B 31 39 48	49 58 14 50 26 14	0 3 7 6	
6	6	Austrina sequens Lateris Quadrilateri, vel Rhombi	δ	307 14 15	76 0 55	13 48	731 58 12	50 17 14	18 3 4	
7	7	Borea sequens Lateris Quadrilateri	γ	308 3 30 308 6 0 308 93 15 308 18 15 310 11 0 310 11 0 310 51 1	74 58 15 85 6 3 82 15 55 78 35 10 78 35 40 77 26 22 80 19 25	13 3 41 11 54 12 12 0 33 14 28 29 15 7 40 15 31 59 16 16 15	32 44 32 5 0 5 24 37 30 25 29 7 5 28 40 19 48 35 57 49 4	50 0 14 53 27 14 52 51 12 51 27 14 41 23 15 51 0 15 51 58 15	3 3 5 6 6 6 6 6	

In Constellatione EQUULE.

	Que est	β 310 50 37 311 43 15 312 16 37	85 52 30 84 0 55 85 47 15	13 12 57 15 59 57 16 2 30	32 32 50 B 34 2 36 11 16 17	54 8 15 53 12 15 53 44 15	30 5 47 6 16 6		
3	3	Duarum in Ore precedens	γ 312 30 45 313 48 27 313 50 55	85 14 37 81 5 4 81 11 30	15 25 37 19 6 24 19 7 2	31 30 31 13 12 5 52	52 56 16 52 21 16 55 22 16	2 6 4 6	
4	4	Sequens	δ 314 49 52	81 12 35	18 7 50	74 47 27	52 25 16	43 4	
1	1	Duarum in Capite precedens	α 315 4 30 316 25 45	86 0 40 83 56 30	18 47 48 20 51 52	20 9 9 42 53	53 32 16 53 18 17	48 4 12 6	
2	2	Sequens	β 316 42 25	84 29 21	21 7 22	2 6 B	53 29 17	21 4	

In Constellatione PEGASI.

21	21	Que est	ε 316 55 15 318 58 45 320 33 0	71 29 4 67 41 55 64 45 0	25 58 39 29 49 57 24 43 41	33 18 39 B 9 30 11 33 14	49 34 17 48 35 47 53 40 18	21 4 4 5 6	
			320 44 0 320 43 15 320 56 45	85 36 20 72 3 20 89 8 0	24 36 55 29 49 32 23 37 56	18 46 5 37 28 35 56 21 40	53 54 18 50 8 18 54 5 18	23 4 6 7 6	
17	1	In Rostris	321 40 43 322 12 47 322 26 45	85 42 4 81 31 35 74 3 10	25 21 11 27 33 32 27 41 42	18 21 36 7 16 2 49	54 0 18 52 50 18 50 3 18	5 6 3 4 5	
20	8	In Suffragine sinistra	322 38 45 322 52 20 322 52 1	85 45 55 8 43 5 27 40	4 37 10 15 39 21 3 34 17	39 5 6 39 5 15	48 29 18 54 41 18 45 20 18	14 4 6 5	
			323 5 1 324 2 324 39 45	74 2 1 61 15 20 62 1 38	2 4 42 8 25 13 8 12 10	18 53 15 47 38 46 7	51 1 12 47 16 10 47 5 19	12 6 15 6 34 6	
			324 44 325 26 35 326 8 45	65 31 10 79 22 45 84 44 0	0 54 27 1 35 20 1 17 45	36 7 7 1 46 20	48 44 19 52 51 19 53 47 1	74 6 6 5	
			326 25 30 326 29 0 327 0 3	8 12 78 21 0 8 6 20	1 6 39 3 1 42 2 51 41	19 6 36 13 20 47 57	53 28 19 52 19 19 52 46 19	49 6 48 6 5 5	
16	3	Duarum in Capite Austrina	327 29 45 327 52 0	86 26 45 62 31 30	58 6 15 11 39 57	42 1 37 4 34	54 15 20 48 24 20	8 5 6	
19	9	In sinistro Genu	328 8 20 328 20 15	66 9 0 69 48 10	10 4 9 8 31 3	16 48 51 42	49 26 20 50 24 20	12 4 6 7	
17	2	Duarum in Capite propin- quorum Borea	328 37 30	85 18 45	2 28 46	16 21 43 B	54 2 20	18 4	

In Constellatione PEGASI.

ORDO	STELLARUM Denominatio.	Ascensio Recta.	Distantia a Polo B.	Longitudo.	Latitudo.	Variatio Asc. Rectae.	Variatio Declinationis.	Magnitudo
	Quae est	328 52 30	58 19 35	15 4 15 41 3 45	47 22 20 22 5			
18 10	In Suffragine dextra	328 57 30	70 31 50	8 48 51 29 57 44	50 39 20 246.7			
		329 3 15	58 19 30	15 15 13 40 59 52	47 22 20 244.5			
		331 12 15	85 45 15	4 48 30 15 1 47	54 12 20 52 6			
		331 33 25	79 20 35	7 37 52 20 51 42	52 52 20 54.5			
		331 44 50	63 13 5	15 10 56 35 34 3	49 16 20 56 6			
	Parvi Δ	332 10 45	70 42 25	11 55 46 28 35 31	51 7 21 36.7			
		332 42 0	82 10 25	5 42 45 13 9 56	54 31 21 9 6			
		333 1 40	86 50 4	6 2 55 13 21 9	54 28 21 13 6			
		333 24 20	82 26 0	8 11 57 17 18 51	53 37 21 186.7			
		333 33 55	87 7 45	6 33 16 12 53 28	54 30 21 19 6			
		333 57 15	59 0 10	19 41 51 38 29 8	49 40 21 22 6			
		334 24 0	71 20 55	13 43 43 27 9 20	51 32 21 266.7			
		335 58 0	72 4 0	15 0 29 25 54 2	51 51 21 45 6			
		336 11 30	71 55 5	15 17 33 25 56 59	51 50 21 486.7			
11 6	Duarum in Colla propin- quarum praecedens	336 29 10	80 46 10	11 49 6 17 42 3	53 29 21 50 3			
8 14	Duarum in dextro Genu Australior	336 47 30	62 18 0	20 35 43 34 25 43	50 32 21 53 5			
7 13	Borealis	337 7 0	61 23 15	21 24 12 35 7 1	49 56 21 58 3			
		337 35 45	72 15 25	16 29 26 25 5 43	52 7 22 266.7			
12 7	Duarum in Colla propin- quarum sequens	337 47 45	79 24 35	13 37 19 18 27 18	53 20 22 3 5			
9 11	Duarum propinquarum in Pectore praecedens	337 53 40	68 3 30	18 43 48 28 48 12	51 22 22 6 4			
10 12	Sequens	338 45 35	67 2 5	20 3 20 29 23 22	51 20 22 13 4			
14 5	Duarum in Juba Borealis	339 9 45	81 48 20	13 57 1 15 43 24	52 49 22 16 6			
13 4	Australior	339 53 45	82 49 40	14 14 6 14 30 6	54 1 22 24 6			
		340 33 15	70 53 0	19 56 37 25 11 47	52 15 22 30 6			
		340 54 45	79 56 15	16 21 59 16 46 18	53 38 22 30 6			
3 18	In dextro Humero Scheat	342 11 25	63 35 40	25 2 13 31 8 6	51 22 22 43 2			
4 17	In Alato Humero in porta Phi Markab	342 19 25	76 27 45	19 9 13 19 24 37	53 16 22 43 2			
	In Parvo □ praecedens	342 50 15	82 15 0	17 14 16 13 43 52	54 5 22 46 5			
		342 59 50	66 11 50	24 28 48 28 28 30	51 54 22 47 5.6			
	Australior	343 27 40	82 59 45	17 31 19 12 53 10	54 12 22 51 6			
	Borea	343 35 50	81 51 15	18 6 39 13 57 58	54 3 22 54 6			
	Orientalis	344 1 0	82 57 20	18 3 32 12 47 24	54 10 22 55 6.5			
		344 11 30	64 49 55	26 16 42 29 13 48	51 55 22 56 6			
		345 10 15	63 26 20	27 53 40 30 5 17	51 57 22 4 6			
5 15	Duarum sub Ala in Corpore Borea	346 19 40	67 57 20	26 44 8 25 53 57	52 40 22 11 6			
		346 25 0	61 16 20	1 11 12 32 39 1	51 53 22 11 6			
		346 42 0	59 53 0	1 11 12 32 39 1	51 46 22 14 6			
		346 49 0	70 51 45	12 5 57 8 22 44 22	52 6 22 14 6			
		346 51 20	79 22 50	22 10 23 14 57 25	53 59 22 13 6			
		347 25 15	59 8 25	1 11 12 32 39 1	51 50 22 13 6.7			
		347 28 40	68 17 55	12 27 38 15 4 47 52	52 55 22 18 6			
		348 4 20	66 31 55	29 1 51 6 9 20	52 50 22 21 6			
		348 21 35	78 56 55	23 45 6 14 45 25	54 4 22 23 6			
		349 29 30	69 13 45	29 4 22 10 9	53 20 22 26 6			
		349 39 7	60 22 50	1 3 35 4 31 1 57	52 31 22 29 6			
		349 50 10	58 12 40	4 56 31 22 53 0	52 19 22 30 6			
		350 28 0	74 53 20	12 27 25 3 17 37 36	53 56 22 31 7			
		351 34 20	73 19 10	18 12 34 19 0 48	53 49 22 32 6			
		351 45 0	75 22 55	12 23 55 16 40	54 6 22 37 6			

In Constellatione PEGASI.

ORDO		Stellarum Denominatio.	Right Asc.	Aeratio Reda			Distantia a Polo B			Longitude			Latitudo			Varia. Varia. Asc. R. Des P.			Magnitud.		
Pol.	Trab.			°	'	"	°	'	"	°	'	"	°	'	"	°	'	"			
		Que est		351	53	0	81	23	10	H	26	0	19	11	7	40	54	31	23	38	6
				352	5	45	62	21	20	T	4	46	0	18	18	5	53	13	23	46	5.6
				353	29	45	62	53	0		5	45	24	27	16	20	53	32	23	44	6
				353	51	45	82	24	20	H	27	24	45	9	24	26	54	42	23	45	6
				354	10	45	72	36	10	T	1	49	59	18	13	41	54	14	23	46	6
				354	11	15	80	46	45	H	28	22	33	10	45	59	54	37	23	45	6
				354	14	0	69	59	0	T	3	3	120	35	0		54	6	23	45	6
				355	30	0	66	34	55		5	45	50	12	9	16	54	8	23	49	6
				356	30	15	64	33	35		7	37	33	24	34	42	54	15	23	49	6
				357	26	15	78	19	50		2	22	0	11	42	38	54	46	23	52	5.6
				358	16	0	73	31	0		5	9	17	15	46	15	54	46	23	53	6
19		In Lumbis & extrema Als		359	19	30	76	32	55		4	49	50	12	35	12	54	56	23	54	2
				359	38	30	71	32	0	T	7	15	42	17	1	40	54	55	23	54	6

In Constellatione LACERTÆ Heveliana.

1	Que in extremitate Caudæ	330	36	15	53	46	40	H	19	42	7	44	24	30	B	46	24	20	44	5
5	In anteriore dextro Pede	332	4	0	45	0	15		27	58	36	51	18	22		43	45	21	2	5
		332	52	0	39	18	20	T	4	23	16	55	34	10		41	38	21	11	4.5
7	In Capite	333	1	0	42	4	15		1	37	33	53	19	9		42	57	21	13	5
		334	10	40	43	51	35		0	52	54	51	24	20		44	8	21	26	4.5
3	In Ventre	334	16	10	48	27	0	H	27	8	24	47	32	41		45	46	21	26	5
8	In Educt. Caudæ præcedens	334	39	30	41	17	30	T	3	52	12	53	17	26		43	18	21	32	4
		335	32	0	51	57	25	H	25	43	28	44	2	31		47	14	21	40	6
		336	9	10	40	2	0	T	6	27	28	53	41	44		43	29	21	47	6
9	In Eductione Caudæ tertio	336	30	30	52	32	45	H	26	4	36	43	12	34		47	36	21	49	6
4	In Dorso	336	44	30	47	19	0	T	0	19	52	47	30	59		46	15	21	54	5
10	In Educt. Caudæ secunda	336	54	30	51	22	45	H	27	25	27	43	59	35		47	28	21	55	6
		337	34	30	49	47	40		29	11	36	45	5	6		47	16	22	3	6
		339	6	30	49	40	30	T	0	41	54	44	34	34		47	40	22	18	6
		339	32	0	48	19	0		2	5	9	45	33	38		47	29	22	19	5
		340	34	30	50	3	0		1	45	28	43	41	10	B	48	18	22	27	6

In Constellatione CEPHEL.

10	Que in Crure dextro est	304	30	0	13	14	35	H	28	51	22	75	28	30	B	27	40	13	32	5
6	Sub Ancone dextri Brachii	305	0	30	28	2	0	T	0	37	40	73	57	30		18	48	14	1	5
5	Ad dextri Brachii Anconem	309	39	0	29	21	5		0	12	58	71	46	22		22	25	15	10	4
		309	41	30	24	27	30		14	55	55	74	7	3		14	43	15	17	6
4	Tangit dextrum Humerum	317	43	30	28	42	20		8	30	33	68	56	20		15	45	17	37	3
		318	9	40	26	25	30		14	18	38	69	59	30		23	1	17	45	6
		320	20	30	24	31	40		20	30	18	70	2	55		21	42	18	22	6
		321	3	0	20	47	35	T	1	17	53	71	9	0		15	40	18	32	3
		322	19	0	29	17	40	T	10	42	10	66	47	28		20	0	18	52	6
		324	5	0	30	17	40		10	5	8	65	29	3		31	0	19	17	5
		324	14	30	20	16	30		4	13	47	70	16	30		17	7	19	22	5
		324	29	30	30	44	10	T	9	25	5	55	1	35		31	42	19	25	7
																				6
		327	51	0	33	28	56		7	41	48	51	52	50		35	47	20	10	6
		328	23	0	31	40	20		10	18	16	54	22			34	30	20	16	7.6
		328	34	30	18	17	25	H	10	26	48	69	24	0		17	32	20	23	5.6
7	In Pectore	328	38	30	26	52	0	T	19	54	39	55	46	5	B	30	33	20	21	5
																				6

In Constellatione CEPHEL																						
ORDO		STELLARUM Denominatio.	Rever. Clus.	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Varia. Astr. R.			Varia. D. & P.			Magnitudo
Procl.	Tych.			0	1	2	0	1	2	0	1	2	0	1	2	1	2	3	1	2	3	
		Que est		328	51	0	29	12	40	15	33	17	64	18	26	B	32	54	20	24	6	
10	4	Trium in Tiarâ Media	γ	328	51	30	28	42	20	16	29	22	64	36	48		32	27	20	24	6	
				329	58	30	33	18	45	9	39	45	61	9	41		36	47	20	37	4	
11	6	Boreâ	λ	330	11	30	32	5	50	11	40	45	61	54	50		36	2	20	40	6	
9		Austrina	ε	330	51	0	34	29	10	8	40	50	59	39	5		38	0	20	49	4	
				330	52	30	19	10	45	8	40	33	68	25	55		21	46	20	51	5	
				331	58	30	28	44	5	18	31	44	63	24	40		34	30	21	3	7	
				334	13	15	26	26	0	24	5	35	63	37	10		34	4	21	28	6	
Inf.	6	Sequitur Tiarâ	δ	334	22	30	33	9	0	13	19	5	59	33	25		39	7	21	30	4	
							12	47	50												6	
			ρ	336	27	0	12	46	15	8	26	37	34	68	23	4	13	26	21	5	6	
				336	52	0	28	0	50	12	22	53	40	62	2	10	27	18	21	5	6	
				336	59	0	17	57	45	8	13	24	20	57	0	10	26	16	22	2	8	
8	3	In sinistro Brachio	ι	339	37	30	25	25	15	12	58	30	62	36	50		37	23	22	2	4	
			π	344	27	0	16	17	15	8	19	14	46	55	33	0	33	0	23	0	5	
			ο	346	28	40	23	34	40	5	41	55	61	23	46		41	58	23	12	5	
2	11	In Crure sinistro	γ	351	49	0	14	5	25	8	25	48	35	64	30	6	41	12	23	42	8	
Sapientissimo Soli Cælorum Conditori Laus, Honos, & GLORIA IN EXCELSIS.																						

Sapientissimo Soli Cœlorum Conditori Laus, Honos, &
GLORIA IN EXCELSIS.

Motus Fixarum in Annis Julianis Expansis

Annus exp.	Motus.		Annus exp.	Motus.		Annus exp.	Motus.		Annus exp.	Motus.		Annus exp.	Motus.		Annus exp.	Motus.	
1	0	50	21	17	30	41	34	10	61	0	50	81	1	7	30		
2	1	40	22	18	30	42	35	0	62	0	51	82	1	8	20		
3	2	30	23	19	10	43	35	50	63	0	52	83	1	9	10		
4	3	20	24	20	0	44	36	40	64	0	53	84	1	10	0		
5	4	10	25	20	50	45	37	30	65	0	54	85	1	10	50		
6	5	0	26	21	40	46	38	20	66	0	55	86	1	11	40		
7	5	50	27	22	30	47	39	10	67	0	55	87	1	12	30		
8	6	40	28	23	20	48	40	0	68	0	56	88	1	13	20		
9	7	30	29	24	10	49	40	50	69	0	57	89	1	14	10		
10	8	20	30	25	0	50	41	40	70	0	58	90	1	15	0		
11	9	10	31	25	50	51	42	30	71	0	59	91	1	15	50		
12	10	0	32	26	40	52	43	20	72	1	0	92	1	16	40		
13	10	50	33	27	30	53	44	10	73	1	0	93	1	17	30		
14	11	40	34	28	20	54	45	0	74	1	1	94	1	18	20		
15	12	30	35	29	10	55	45	50	75	1	2	95	1	19	10		
16	13	20	36	30	0	56	46	40	76	1	3	96	1	20	0		
17	14	10	37	30	50	57	47	30	77	1	4	97	1	20	50		
18	15	0	38	31	40	58	48	20	78	1	5	98	1	21	40		
19	15	50	39	32	30	59	49	10	79	1	5	99	1	22	30		
20	16	40	40	33	20	60	50	0	80	1	6	100	1	23	20		

FIXARUM

Quas LUNA aut PLANETÆ ZODIACUM percurrentes vel tegere possint, vel adpropinquare

LONGITUDINES & LATITUDINES

Ad Annum incuntem, 1690.

In Constell.	Longitudo.	Latitudo. Borealis.	Latitudo. Australis.	Altitudo.	In Constell.	Longitudo.	Latitudo. Borealis.	Latitudo. Australis.	Altitudo.
Ceti	0 59 7		6 37 17	6	Pisces	15 32 53		0 51 50	6
	1 45 50		2 42 06	6		15 43 21	5 31 13		6
	2 5 16		3 59 56	6		16 23 36	7 23 22		6
Pisces	2 16 10		0 44 45	6		17 56 0		3 34 52	7
Ceti	2 18 26		6 47 28	6		18 46 40		3 4 25	5
Pisces	2 26 23	9 12 37		6		18 53 15	7 39 27		7
	2 37 16	6 36 3		6		18 57 55		1 54 52	6
	2 45 8	5 54 26		6		21 10 37		4 43 12	5
	3 11 38	6 24 2		7		21 40 54	8 20 43		7
Ceti	3 39 13	5 27 28		6		22 13 38	2 28 5		6
	3 56 51		3 58 56	6		22 29 20	5 21 7		4
	4 13 26		4 15 16	6		22 35 18	1 52 5		5
Pisces	4 36 55	4 30 42		6		22 45 12	9 22 3		5
	5 49 21	3 11 8		6		22 52 27	9 23 58		5
	6 9 48	10 9 8		6		23 11 18		7 55 45	6
Ceti	7 25 18		6 17 50	6		23 11 35	4 20 47		6
Pisces	9 12 22	1 31 48		6		23 14 23	8 17 49		6
	9 37 31	1 57 28		6		23 24 40		1 38 58	5
Ceti	9 49 17	2 9 44		4		23 50 6	3 40 32		6
Pisces	10 0 38		5 2 10	6		24 41 39	5 51 46		8
	11 8 49	6 22 25		7		24 42 5		8 35 56	6
Ceti	11 22 38		9 8 43	5		24 42 30	5 37 12		5
	11 56 19		0 48 29	6		25 2 23		9 5 10	3
	12 7 10		4 49 16	6		25 24 42		0 26 39	4
	12 23 25		9 49 33	6	Ceti	26 36 18	5 57 3		6
Pisces	12 23 56		8 14 45	6	Arietis	26 48 15	9 1 26		7
	12 26 42	9 38 42		6		26 49 4	5 23 59		7
Pisces	12 32 10		9 38 12	6	Pisces	27 14 27	8 36 20		8
Ceti	12 41 48		1 55 30	6	Arietis	28 51 0	7 8 58		4
Pisces	12 46 46		1 10 55	6		29 10 57	5 26 12		6
Ceti	12 58 10		4 40 57	6	Ceti	29 15 5		4 24 38	6
Pisces	13 1 40	1 9 28		4	Arietis	29 37 59	8 28 16		3
	13 12 11	1 4 7		4	Ceti	29 42 36		4 17 5	6
Ceti	13 21 58		4 50 31	6					
Pisces	13 36 45		1 30 14	5	Arietis	1 49 50	1 46 25		6
Ceti	13 54 25		8 17 42	6		2 43 49	5 56 58		6
	14 34 28		8 30 6	6		2 55 8	9 13 29		6
Pisces	15 0 4		4 17 13	6		3 0 49		3 33 31	6
	15 12 13		0 13 25	4	Ceti	3 7 35		5 53 75	6

Fixarum in Zodiaco Longitudines & Latitudines.

In Constell.	Significatio.	Longitudo.				Latitudo Borealis.				Latitudo Australis.				Magnitudo.	In Constell.	Significatio.	Longitudo.				Latitudo Borealis.				Latitudo Australis.				Magnitudo.
		s	c	°	'	°	'	°	'	°	'	°	'				s	c	°	'	°	'	°	'	°	'	°	'	
Arietis	α	8	3	19	18	9	57	12					2	Tauri	δ	23	6	10		3	41	37				6			
			3	75	14	6	8	45					7			23	30	49					0	0	50	6			
			3	30	53				4	9	43		7			23	50	29					0	7	15	6			
													6			24	26	24					5	32	51	6			
Ceti	π		3	45	50	7	22	45					4.5		η	24	47	9		3	3	43				6			
Arietis	1 ad β		4	3	9				9	12	26		5.5		β	24	5	21		4	9	3				5			
	2 ad θ		4	32	25		5	43	39				6.5			25	5	21		4	9	3				5			
			4	41	59		5	27	23				7		ε	25	7	5		4	19	25				6			
			6	18	40				0	1	56		5.6		e	25	14	42		4	29	2				7			
			6	20	7				2	44	12		5.6		m	25	18	52		4	50	42				7			
			6	41	33		2	40	42				6.7		c	25	21	31		4	21	25				6			
Ceti			7	14	22				4	48	29		6.7	PLEJADUM	d	25	22	30		3	54	47					5		
Arietis			7	19	13		4	44	7				6.7		k	25	25	16		4	31	33					6.7		
			7	31	45		4	41	30				6		l	25	26	40		4	29	49				7			
Ceti	μ		7	34	50				5	35	33		4		p	25	38	32		4	1	39				7			
Arietis			8	17	35				3	21	59		7		n	25	40	8		4	0	37				3			
			9	3	43				0	36	24		6		s	25	56	0		3	41	45				7.8			
			9	45	8		1	44	43				7		f	26	1	52		3	52	37				6			
			9	48	3		6	7	56				6		b	26	3	19		3	57	34				7.8			
	μ		9	59	55		4	1	56				6		λ	26	17	31					7	59	57	4			
			10	14	15		8	49	48				7			27	25	21		1	58	32				6			
	σ		10	35	46				1	19	37		6			27	26	33		2	38	20				7			
Ceti	λ		10	45	6				7	49	12		4			28	0	57					0	10	38	7			
Arietis	π		10	47	52		1	6	13				6		A	29	7	15		1	13	20				5			
			10	52	39		1	56	14				6			29	15	0		1	8	1				6			
	1 ad β		12	9	32		0	58	37				6			29	26	17		3	13	26				7			
	2 ad β		12	32	11		1	28	58				6.7		1 ad ω	29	40	53					1	23	58	6			
	3 ad β		12	34	24		1	10	3				6.7		II	0	27	43					5	50	11	7			
Tetragona - Arietis			12	56	17		8	32	12				7			0	56	10		6	33	7				7			
			13	42	8		3	34	37				6.7		↓	0	57	25		7	54	38				7			
			13	44	34		0	46	38				7			1	12	31					7	20	32	6.7			
			13	51	45		10	25	37				3		ρ	1	19	32		5	16	41				6			
			14	10	9		4	8	1				5		γ	1	27	34					5	46	22	3			
			15	3	56		0	16	22				7		b	1	23	12					6	19	57	3			
			15	30	48		1	5	39				6.7			1	38	53					7	22	0	7			
			16	13	50		8	51	53				7			1	39	52					4	45	35	7			
Arietis			16	22	21		8	59	42				7		2 ad ω	1	43	40					0	47	26	6			
	δ		16	30	18		1	47	34				4			2	9	33		0	8	53				7			
			16	39	20		7	29	5				6			2	19	18					0	19	22	7			
Tauri	η		16	49	36					9	21	47		4			2	31	24					4	44	58	6		
			17	33	43					8	49	48		4		1 ad δ	2	31	27					4	0	34	4		
Arietis	ν		17	36	34		2	51	19				5			2	42	21		0	15	0				7			
			18	41	2		8	58	25				6.7		2 ad δ	2	47	12					4	9	4	4			
Tauri	ι		18	44	58					7	28	29		6			2	54	1					5	41	50	7		
	ε		18	47	41					9	30	27		6		π	2	56	57					6	56	53	5		
Arietis	1 ad τ		19	2	42		2	34	5				7				3	2	10					6	2	44	7		
Tauri			19	15	18					5	57	13		5		3 ad δ	3	11	42					3	43	27	6		
Arietis	2 ad τ		19	18	49		2	4	57				6		b	3	12	31					8	40	32	5			
			19	41	15		2	2	52				7				3	22	25					6	59	1	7		
			20	3	5		6	59	28				7				3	32	59		5	46	12				5		
			20	19	30		8	23	0				7		1 ad h	3	36	25					5	47	16	5			
			20	29	45		5	51	39				6		2 ad h	3	36	51					5	52	5	5			
			20	56	54		8	45	25				6				3	39	12					5	23	48	7		
			21	6	22		3	46	1				7				3	44	57					8	4	25	7		
Tauri			21	32	28		2	59	57				6		χ	3	46	56		3	58	41					5		
			21	46	50					0	5	20		6		2 ad x	3	51	37		0	29	46				5		
			22	50	12		5	2	40				6		1 ad x	3	51	53		0	35	21					5		
	ε	δ	23	0	15					8	40	36		5	Tauri	II	3	53	21		2	37	6				7		

Fixarum in Zodiaco Longitudines & Latitudines.

69

In Constell.	Longitudo.	Latitudo. Borealis.	Latitudo. Australis.	Magnitudo.	In Constell.	Longitudo.	Latitudo. Borealis.	Latitudo. Australis.	Magnitudo.
	° ' "	° ' "	° ' "			° ' "	° ' "	° ' "	
Tauri	II 3 56 0		6 9 18	7	Tauri	II 21 6 7	2 29 23		6
	3 57 22		6 42 4	7		21 9 38		6 52 43	6
	4 3 47		6 7 13	7		21 36 54		4 25 54	6
	4 5 43		6 43 28	7		21 59 23		7 20 57	6
	4 7 11		2 35 58	3-4		22 27 1		7 38 1	6
1 ad u	4 9 42	I 4 6		5		22 32 16		8 57 39	6
	4 22 35		6 0 53	7		22 38 44		9 33 28	6
2 ad u	4 25 18	I 12 36		6		22 39 22		5 43 23	6
	4 42 7		7 5 6	5		23 10 3	I 6 31		4
1 ad c	5 24 30		9 32 32	5		23 19 48		9 9 37	6
	5 27 0		5 29 49	1		23 46 29		9 18 2	5
2 ad c	5 49 58		9 55 14	6		23 46 54		9 31 13	6
	5 54 15		6 3 22	7	Orionis 1 ad	24 10 37	4 8 15		5
	6 7 14		6 19 19	6	2 ad	24 22 23		3 11 44	5
2 ad c	6 9 52		6 12 35	6		24 29 13		3 44 1	5
	7 49 20	0 40 23		5	Tauri	25 12 28	2 28 5		6
	8 23 8	I 44 11		6-7		25 46 35		0 35 3	6
	8 41 27		6 28 0	6		26 3 40		I 4 43	6
Orionis 1 ad	9 9 15		8 16 7	4-5	Orionis	26 36 2		3 20 40	6
Tauri i	9 24 58		3 42 35	6	Geminorum H	26 37 24		0 12 19	5
Orionis 2 ad	10 0 34		9 6 31	4-5	Orionis 4 ad	27 11 40		3 48 31	6
Tauri	10 41 58		6 19 6	6	Geminorum	27 13 25	0 9 50		8
	11 6 28		6 39 0	6	Orionis 5 ad	27 18 25		3 21 33	5-6
	11 35 24	0 50 29		6		27 21 17		8 42 16	4-5
	11 40 58	2 19 3		6	Geminorum	27 54 29		0 21 5	8
Orionis 1 ad	12 11 56		7 25 55	5		28 5 24		0 28 5	7
Auriga i	12 19 33	10 24 53		4		28 18 10	0 57 59		7
Tauri	12 27 36		I 14 34	4	Orionis	28 30 20		0 32 35	7
	13 9 18		4 16 8	6		28 30 25		3 39 59	6
1 ad l	13 26 55		2 30 59	6		28 34 1		9 14 49	4-5
Orionis 2 ad	13 27 34		7 21 32	5	Auriga 1 ad	28 34 14		7 19 30	6
Tauri	13 35 20		I 14 6	6		29 2 43	6 4 47		4-5
2 ad l	13 38 52		3 5 34	6	Geminorum	29 6 32		0 56 0	4-5
	13 41 29	I 42 42		6	Orionis	29 12 10		4 16 2	6
	15 22 54		0 48 4	7	Geminorum	29 23 55	0 32 20		7-8
	16 10 53	9 34 6		6	Orionis 2 ad	29 24 9		7 17 31	6
	16 14 58		I 3 3	6	Geminorum	II 29 33 5	0 18 48		7
Auriga	16 49 17	10 13 20		6		0 0 10	0 11 25		8
Tauri	16 54 6		6 30 25	7		0 5 32	0 3 40		8
	17 7 0		5 49 12	6-7		0 6 42		0 8 5	8
	17 29 44		6 33 2	6		0 58 10		0 51 22	3
	17 37 30	5 42 51		7		I 38 30		I 42 18	7-8
	17 49 31		5 18 47-8	7	Auriga	I 52 17	7 9 30		6
	17 50 11		7 23 06-7	7	Geminorum	2 10 24		2 32 12	7
	17 59 37		6 1 45	7		2 13 30		2 50 9	7
	18 10 6		I 20 12	5		2 24 53		2 31 56	8
	18 13 56	5 21 34		2		2 28 20		3 6 3	4
	18 42 56	I 51 14		6		3 19 16		7 22 33	7
	19 3 45		4 43 53	7		3 23 4		5 29 15	7-8
	19 15 54		9 2 19	7		3 27 46	4 46 30		6
	19 22 21		4 48 10	7		3 38 19		5 28 26	6-7
Auriga	19 50 20	8 50 43		5-6		3 50 58		3 48 43	7
Tauri	20 3 53	0 40 32		6		4 6 16	5 47 5		7
	20 8 48		6 20 26	7		4 20 7		6 14 57	5
	20 27 28		2 14 21	3		4 24 39	5 4 50		6
	20 51 3		0 7 26	6-7		4 46 18		6 47 19	2-3
Auriga	II 21 2 46	7 5 24		6					

Fixarum in Zodiaco Longitudines & Latitudines.

In Constell.	Boyer, C. 1850	Longitudo.	Latitudo Borealis.	Latitudo Australis.	Magnitudo.	In Constell.	Boyer, C. 1850	Longitudo.	Latitudo Borealis.	Latitudo Australis.	Magnitudo.
		5 0 1 2	0 1 2	0 1 2				5 0 1 2	0 1 2	0 1 2	
Geminarum	⊕	4 48 34 5 30 22 5 35 25	5 2 43 5 52 0 5 51 40		7 6 6.7	Geminarum	⊕	20 55 12 21 39 54 21 56 22	5 44 38 1 22 20		5 5 5
	⊖	5 36 37 5 48 2 6 31 47	2 1 30	5 27 34 9 50 27	3 5 6	Canis Minoris	π	22 43 34 22 49 38 22 54 28	4 43 11 7 11 26	10 20 15 0 54 41	6 6 5
1 ad	⊙					Geminarum	⊖	22 43 34 22 49 38 22 54 28	4 43 11 7 11 26		6 6 5
2 ad	⊙	6 52 53 7 2 57		10 7 57 10 20 13	5.4 6	Canis Minoris	⊖	23 4 11 23 22 23 23 49 13	4 27 15	8 15 17 4 52 46	5.6 6 6
	d	7 37 39 7 41 5 8 4 35	2 29 9 3 15 36 3 7 12	11 11 15 6 45 50	6 6.7 6			24 7 46 24 10 40 24 24 46	7 8 1 1 35 13	8 15 17 2 12 35	6 6 6
		8 9 46 8 53 7 9 2 13		9 40 15 6 43 20	6 6 6	3 ad	⊙	24 35 27 24 36 38 24 45 35	9 27 22 2 16 21	4 0 21	5 7 6
1 ad	⊙	9 8 19 9 52 20 10 14 10	1 30 14	2 5 27 5.7	3.4	1 ad	⊙	24 47 23 24 54 49 25 9 26	5 36 4 5 18 44 1 19 13		6.7 4 5
2 ad	⊙	10 39 31 10 42 25 11 9 4	0 0 11 7 43 7	6 34 25 7 13 25	6 6.7 7.6		⊙	26 18 34 26 38 3 27 0 22	7 27 32	7 5 30 2 17 52	6 5.6 6
	⊙	11 34 30 12 3 8 12 9 12	4 21 25 3 17 36 1 41 5		6	1 ad	⊙	27 1 42 27 29 33 27 52 28	8 27 31 4 20 33 8 25 43	6 24 35	6 6 5.7
	⊙	12 11 13 12 28 55 12 33 46	5 28 39 2 29 56	7 13 25 6 13 13 0 13 7	6 6.5 3	3 ad	⊙	28 7 13 28 10 32 28 44 18	8 27 31 7 30 0 5 10 36		6 6 6
	⊙	13 13 35 13 21 51 14 11 26		5 40 37 5.6	6	2 ad	⊙	29 15 40 29 27 6 29 55 6	4 53 45 4 59 48	1 2 39	6.7 6 6
	λ	14 23 25 14 27 14 14 31 55	5 31 6 2 55 41		4.5 5 7.8	4 ad	⊙	29 56 19 0 15 14 0 20 24	10 19 6 5 5 16 2 7 51	4.3 7.8 6	
	⊙	14 38 10 14 44 55 14 49 33	5 43 35 9 45 10 0 50 57		6.7 6 6	2 ad	⊙	0 20 24 1 5 29 1 20 11	1 32 33	8 31 32	6 6.7 6
1 ad	⊙	14 49 39 15 22 58 15 30 51	6 9 23 5 58 20	1 40 58 1 41 55 0 29 28	6.7 6 6		⊙	1 24 44 1 34 58 1 39 24		0 47 46 6 22 16 4 45 26	6.5 6 6.7
	α	15 55 20 16 0 45 16 1 29	10 3 48	10 16 12 5 6 6.7	7.6 6 6		⊙	1 53 19 2 0 53 2 50 50	0 52 1 10 23 40 1 18 18		7 5 8
Canis Minoris	⊙	16 48 34 17 1 34 17 35 36	5 11 1 6 26 15		6.7		⊙	2 53 10 2 53 53 3 5 9	1 31 18 1 34 10 1 18 37		6 6 7.8
Geminarum	⊙	17 43 29 17 56 31 18 13 58	6 14 26	9 45 18 6 2 17	6 7.8	1 ad	⊙	3 5 25 3 13 0 3 23 2	1 6 22 3 9 41 10 15 12		7 4 6
Canis Minoris	⊙	18 15 17 18 17 56 18 56 9	7 25 46 6 39 27	5 50 21 5 2 6	6 5 2	2 ad	⊙	3 26 14 3 38 1 3 41 1	10 21 47 8 31 50		6 6 6
Geminarum	⊙	19 1 52 19 20 18 19 20 32	4 24 25 3 2 23	3 47 19 0 57 3	6 7 6	3 ad	⊙	4 2 35 4 10 51 4 23 40	10 8 24 0 3 46	0 3 15	6 6 4
	⊙	20 12 59 20 29 59 20 45 53	1 57 19	2 40 59	6	4 ad	⊙	4 49 27 5 4 30 5 29 46		8 39 1 8 40 4 5 20 3	6 6 6
	⊙					Canis	⊙				

Fixarum in Zodiaco Longitudines & Latitudines.

71

Fixarum in Zodiaco Longitudines & Latitudines.

In Constell.	Bayer's Cha.	Longitudo.				Latitudo. Borealis.				Latitudo. Australis.				Magnitudo.
		s	o	i	u	o	i	u		o	i	u		
Leo		16	27	27						0	18	57	8	
		16	51	53						2	16	55	5	6
		16	53	22						0	32	7	8	
Virgo	♄	17	10	19						7	39	5	4	
	♅	17	11	2						0	34	4	4	
	♆	17	30	5		5	19	13					6	
Leo		18	35	11		0	16	9					6	
	1 ad	19	0	29		6	6	21					5	
	2 ad	19	37	15		6	21	33					6	
Leo	♁	19	49	35		4	35	39					5	
	♂	20	3	13						5	4	22	4	5
	♂	20	42	52						3	3	35	4	
Virgo	♁	21	9	47		7	14	53					6	
	♂	22	46	14		0	40	47					3	
	♂	23	13	29		6	8	52					5	
	♂	23	23	6		8	31	29					5	
	♂	24	12	31		3	20	31					5	6
	♂	25	39	56		6	19	31					6	
	♂	27	8	22		2	42	52					6	
	♂	28	44	18		7	7	9					6	
	♂	29	2	17		5	4	22					4	3
	♂	0	16	44		1	8	8					6	
	♂	0	30	52		1	22	1					3	
	1 ad	2	4	0		8	49	30					6	
	♂	2	36	14		10	24	45					6	
	♂	3	38	52						6	14	52	6	
	♂	5	16	0		8	1	40					6	
	♂	5	52	11		2	48	53					3	
	♂	6	20	30		7	55	50					3	
	♂	6	42	20						1	35	32	6	
	♂	7	9	52						5	19	47	6	
	♂	7	9	54		8	38	27					3	
	♂	7	50	38						3	27	23	5	
	♂	8	15	49						2	44	25	6	
	♂	9	19	24		2	0	34					6	
	♂	10	52	55		2	21	50					6	
	♂	10	54	1		2	23	4					6	
	♂	10	56	32		2	52	59					6	
	♂	11	31	30						3	3	16	6	
	♂	11	48	45		2	56	15					5	
	♂	11	52	25						3	25	22	5	
	♂	13	54	23		1	45	29					4	
	♂	15	25	9						3	15	3	5	
	♂	15	41	28						2	42	31	6	
	♂	16	4	27						2	21	25	6	
	♂	16	46	0		3	35	51					6	
	♂	16	51	7						2	15	25	6	
	♂	17	8	20		3	27	34					6	7
	♂	17	27	52						1	58	38	6	
	♂	17	49	50		8	39	9					6	
	♂	18	25	56						7	53	20	4	5
	♂	18	28	19						2	35	26	6	
	♂	18	59	18		2	47	25					6	
1 ad	♂	19	16	27		3	8	55					6	
	♂	19	21	21						2	1	59	1	
	♂	19	45	12		4	15	21					6	
2 ad	♂	19	46	20										
	♂	20	6	23		2	0	27						
	♂	20	26	48						3	18	24	4	
3 ad	♂	20	43	10						9	9	54	4	5
	♂	20	55	51						0	24	7	6	
	♂	21	10	24		2	9	20					6	
4 ad	♂	21	28	22						8	19	41	6	
	♂	21	35	23		8	12	20					6	
	♂	21	49	15						6	17	54	5	6
5 ad	♂	22	23	31		1	43	45					6	
	♂	22	48	30						5	14	34	6	
	♂	22	52	22		9	37	22					6	
6 ad	♂	23	16	7		4	4	4					6	
	♂	23	52	14						8	26	42	6	
	♂	24	43	6						1	21	46	6	
7 ad	♂	25	26	5						5	6	32	6	
	♂	25	50	3						4	30	38	6	
	♂	26	59	34						6	18	29	6	
8 ad	♂	27	39	36						6	21	27	5	6
	♂	28	10	30						3	41	48	6	
	♂	28	25	25		3	19	59					6	
9 ad	♂	29	16	54		2	32	20					5	
	♂	29	27	36		7	15	40					4	
	♂	29	57	42		3	15	23					4	
10 ad	♂	0	10	40		2	55	40					4	
	♂	2	14	42		8	4	23					6	
	♂	2	38	13		0	31	4					4	
11 ad	♂	2	48	1		7	25	56					6	
	♂	3	5	16		2	26	33					7	
	♂	5	47	23		9	43	8					4	
12 ad	♂	9	28	27		0	35	38					6	
	♂	9	51	43		2	3	54					5	
	♂	10	22	31		4	34	38					6	
13 ad	♂	10	42	55		0	24	26					6	
	♂	10	46	40		0	22	51					2	
	♂	10	47	59		5	13	27					6	
14 ad	♂	10	52	46						9	1	22	6	
	♂	10	58	34		8	16	34					4	5
	♂	11	3	19		5	33	48					7	
15 ad	♂	11	12	55		5	37	3					6	
	♂	11	39	14						1	45	30	6	
	♂	11	43	17						8	43	9	6	
16 ad	♂	11	45	29						8	42	11	6	
	♂	12	30	0						9	0	50	5	6
	♂	12	49	10						9	1	56	6	
17 ad	♂	13	1	49						9	26	50	6	
	♂	13	14	24						9	57	48	7	
	♂	14	2	47						7	37	33	6	
18 ad	♂	14	28	1		1	13	43					5	
	♂	14	34	16		1	1	32					6	
	♂	14	58	48						8	11	5	6	
19 ad	♂	15	3	40		8	32	3					2	
	♂	15	52	1						10	13	50	6	
	♂	16	22	31						7	35	56	3	
20 ad	♂	16	41	20		0	18	3					3	
	♂	16	41	43						8	48	23	4	3

In Constell.	Sign. Char.	Longitudo.				Latitudo Borealis.				Latitudo Australis.				Magnitudo.	In Constell.	Sign. Char.	Longitudo.				Latitudo Borealis.				Latitudo Australis.				Magnitudo.
		s	o	i	u	o	i	u	u	o	i	u	u				s	o	i	u	o	i	u	o	i	u	u		
Hydra			16	43	19					10	23	52	6.7		Serpentarii		10	47	13				0	51	43	7			
Libra	a ad		16	54	30					1	35	52	6		Serpentis		11	7	23				9	44	45	7			
			17	1	43		8	5	44						Serpentarii		11	13	3				0	37	1	6			
			17	11	25					7	25	50	7				11	56	42		3	55	50			6			
	1 ad		17	36	48		2	49	46				7		Scorpii		12	8	21				2	11	0	6			
	2 ad		17	53	22		3	22	18				6				12	23	1				10	29	56	6			
			18	14	26		0	18	56				6		Serpentarii		12	49	55				2	51	17	6			
			19	19	41		8	56	50				6		Scorpii		13	0	15				2	46	40	6			
	1 ad		19	25	30		2	8	17				6				13	12	55		1	21	50			6			
			20	2	23		1	40	27				7		Serpentarii	n	13	38	46		7	13	53			3			
	3 ad		20	6	40		2	23	6				6		Scorpii		15	28	15				3	53	47	6			
	4 ad		20	42	5		2	16	39				4		Serpentarii	A	15	42	14				3	24	96	5			
			20	48	53		4	25	27				3.4		Scorpii		15	55	15				3	20	8	6			
			22	39	2		0	14	7				6		Serpentis	v	15	57	39		10	18	11			4			
			23	2	23		4	2	52				4		Serpentarii		16	6	17				1	8	53	6			
			23	27	0		0	1	54				4		Scorpi		16	12	46				3	29	39	6			
			23	44	54					8	30	16	6		Serpentis		16	12	46		10	8	59			6			
			24	0	34					4	5	38	6		Serpentarii	p	16	33	55		2	4	43			4			
			24	17	28					8	28	9	4		Scorpii		17	0	27				1	42	28	6			
			25	1	17					9	58	50	4		Serpentarii	h	17	3	11				1	47	47	4			
			25	23	4		3	30	4				4				17	33	5				4	54	47	4			
			26	4	4		6	7	48				4		Scorpii		17	43	57				0	59	54	7			
			26	9	43		0	7	50				4		Serpentarii	B	17	59	54				0	54	35	4			
			26	22	27		0	9	12				6				18	31	16				6	34	12	6			
Scorpii	b		26	48	50					5	26	33	6				19	0	57				0	31	20	7			
Libra	E		26	58	42		9	16	29				4.5		Sagittarii	e	19	9	15				0	38	23	6			
			27	4	55		4	4	20				6				19	22	10		2	39	52			6			
Scorpii	1 ad A		27	18	8					4	54	13	5		Serpentarii		19	57	58		1	19	59			6			
	2 ad A		27	30	49					4	46	19	7		Serpentis	E	20	13	23		7	59	5			4			
			27	55	46					5	43	48	6		Sagittarii		20	14	34		7	48	58			6			
			28	1	11		8	4	40				6				20	46	23				1	30	24	6			
			28	15	50					1	56	31	3		Serpentarii	D	21	48	44		1	44	45			6			
			28	37	25					5	25	46	3				22	35	9		1	36	1			6			
			28	48	52					8	33	25	4		Sagittarii	p	22	55	1				4	22	42	6			
			28	52	56		1	3	9				2		Serpentarii		24	31	30				1	24	8	5			
	1 ad		29	21	35		0	16	5				5		Sagittarii	b	25	28	16				0	19	45	6			
			29	23	11		9	15	16				6				25	43	17				0	47	51	7			
	2 ad		29	32	9		0	5	56				5		Serpentarii	i	25	46	1		5	28	51			6			
			0	20	11		1	40	50				4		Sagittarii		26	0	18		6	20	22			7			
			0	55	59					6	38	22	6				26	19	47				0	47	50	6			
	1 ad		2	0	35					7	7	3	6				26	25	42		4	8	20			7			
			3	7	35					2	37	10	6				26	33	35				0	52	24	7			
Serpentarii			3	14	18		1	36	9				5				26	53	25				0	33	23	7			
Serpentis			3	15	48					2	35	17	6				26	55	47				6	55	51	3			
			3	29	24					3	59	4	5				28	42	3		0	20	27			7			
Scorpii	σ		3	29	24								5		1 ad		28	54	10		2	22	54			4			
Serpentarii	χ		3	40	25		3	16	32				6				28	59	32		1	43	43			7			
	ε		4	7	58					1	42	35	5		2 ad		29	15	5		2	42	28			6			
			4	21	26		5	14	41				4				29	15	26		3	2	42			7			
			5	19	53		0	28	40				5				29	34	56		2	53	2			7			
Scorpii			5	25	12					3	11	30	5.6																
			5	26	4					4	31	26	1				W	0	13	13				7	24	41	7		
Serpentarii	ι		6	58	10		4	28	25				5.6				0	14	12				6	25	21	3			
Scorpii	π		7	7	56					6	4	23	4				1	38	55		2	48	39			6			
			8	45	56					0	45	20	6				1	59	55					2	4	1	4		
Serpentarii			9	12	34					3	5	10	6				2	35	23					0	57	48	7		
Scorpii			9	45	21					2	7	56	7				W	2	40	15				0	36	39	7		

Fixarum in Zodiaco Longitudines & Latitudines.

In Constell.	Brav. Cœl.	Longitudo. s o ' "	Latitudo Borealis. o ' "	Latitudo Australis. o ' "	Magnitudo.	In Constell.	Brav. Cœl.	Longitudo. s o ' "	Latitudo Borealis. o ' "	Latitudo Australis. o ' "	Magnitudo.
Sagittarii	W	3 15 52		0 45 42	7	Capricorni	w	3 28 57	3 19 30		6
	Q	5 16 0		0 41 20	6			3 37 5		8 55 5	6
		5 50 42		3 54 35	5			3 50 59		3 22 34	6
		6 24 0	0 39 49		7		T	3 58 44	3 23 26		6
		7 19 56	2 39 12		6	Aquarii	e	6 47 24		0 28 9	6.7
		7 26 24	0 48 34		6			7 24 6	8 6 41		5.4
		7 45 55	1 1 30		6	Capricorni	A	7 34 24		1 51 10	6.7
1 ad	σ	8 3 12		3 23 32	4.3			7 30 46		8 3 38	6
		8 9 4	0 9 12		5			8 17 2		0 29 37	6
2 ad	ι	8 15 9	1 32 3		6		η	8 25 55		2 57 43	5
1 ad	κ	8 22 14	0 12 33		5	Aquarii	μ	8 44 13	8 16 10		4.5
2 ad	λ	9 6 9	2 9 25		5	Capricorni 1 ad	χ	8 57 52		4 31 8	6
		9 8 52	1 42 12		6	Aquarii		9 19 20	3 51 52		6.7
		9 17 22		7 7 55	3	Capricorni 3 ad	χ	9 22 7		3 58 9	6
		10 30 16		5 1 12	4	2 ad	χ	9 24 57		3 36 46	6
		10 40 46	0 54 38		4	Aquarii		9 28 11	3 19 30		6
		11 56 44	1 28 59		4	Capricorni	θ	9 31 40		0 33 0	5
		12 43 6		2 52 55	5	Aquarii		9 32 59	7 17 53		6
1 ad	λ	14 2 22	3 17 59		6	Capricorni	φ	10 42 44		4 29 50	6
2 ad	χ	15 0 19		2 26 17	5			12 2 31		2 7 23	6
		15 2 43		2 21 5	5	Aquarii	ι	12 4 13	4 47 48		5
2 ad	ρ	15 6 17	3 48 43		6	Capricorni		12 10 39	0 43 40		6
3 ad	χ	15 7 46		1 54 36	6			12 16 0		1 39 3	7
1 ad	ρ	15 8 20	4 15 43		5	Aquarii		12 23 54	10 30 14		6
		15 21 49	6 8 42		6	Capricorni		12 33 35		5 17 25	6
		15 39 4	0 12 20		6			12 36 49		6 57 36	5
1 ad	b	17 24 12		3 1 53	6			13 8 8		5 50 27	6
2 ad	b	17 31 15		3 13 1	6		b	13 15 20		6 31 49	6
		18 28 4		1 54 4	6			13 21 50		1 20 13	5
1 ad	e	19 52 56	5 5 54		6	Aquarii	ι	14 18 30	6 21 43		6
2 ad		20 20 29	5 11 26		6			15 1 16	2 17 3		6
	f	20 36 41	1 27 2		6	Capricorni		15 8 37		5 31 19	6
	w	21 29 46		5 22 55	5			15 10 57		5 22 15	6
	b	21 35 15		6 16 34	5			15 42 16		8 53 38	6
		22 6 2	1 54 3		5	Aquarii		15 50 33	5 45 41		6
	a	22 13 16		5 24 44	5	Capricorni	ι	15 52 52		4 56 50	4
	c	22 43 30		7 3 48	6	Aquarii		16 14 35	5 11 33		6
Aquila cum Ant.		23 18 26	10 5 20		5			16 53 23	10 25 12		6
Sagittarii	ε	24 7 49		5 8 23	6	Capricorni	x	17 19 5		4 48 36	5
		25 27 19	6 44 32		6		γ	17 27 42		2 31 18	4
		26 29 27	7 31 45		6	1 ad	d	18 40 49		0 9 13	6
		26 38 1	8 34 40		6	2 ad	d	18 53 46		0 37 44	6
Capricorni		27 26 1		2 3 23	6			19 0 0		1 1 54	6
	ε	28 6 58	7 27 4		6	Aquarii	β	19 4 22	8 38 43		3
		28 10 28	7 13 18		6	Capricorni	δ	19 13 14		2 32 19	3
	σ	28 21 44	0 29 29		Obs	Aquarii	ε	19 47 16	5 59 14		6
1 ad	λ	29 11 41	7 15 34		6	Capricorni		20 36 58	1 38 24		6
		29 27 19	7 1 31		4		δ	20 41 4	1 57 24		5
2 ad	λ	29 32 21	6 58 6		3		1 ad	c	21 5 31	4 13 51	6
	β	29 43 57	4 37 27		3		2 ad	u	21 19 31	3 56 38	6
								21 29 12		0 39 10	5
	π	0 7 9	6 36 51		6	Aquarii		22 24 57		4 37 24	6
	ρ	0 23 55	0 56 6		Obs			23 19 51		6 37 4	6.5
		0 51 9	1 14 17		6			23 34 22		9 27 4	6
	υ	0 54 10	0 26 9		Obs			24 24 1		2 3 15	4
	υ	2 50 11		6 58 23	5			25 38 49		2 52 39	6
	υ	3 20 53	0 15 46		6		e	26 9 58		0 15 37	6

In Constell.	Rever. Obs.	Longitudo.				Latitudo.				In Constell.	Rever. Obs.	Longitudo.				Latitudo.				In Constell.	Rever. Obs.	Longitudo.				Latitudo.						
		s	o	i	"	o	i	"	o	i	"	s	o	i	"	o	i	"	o	i	"	s	o	i	"	o	i	"	o	i	"	
Aquarii		26	16	22		5	4	48		6		10	58			8	18				Aquarii		10	58			8	18				
		26	24	14		0	26	43		6		11	6	22		7	22	49			Pisicium		11	6	22		7	22	49			
		26	40	30		*			6	49	12	7	8			10	7	57			Aquarii		11	8			10	7	57			
		27	4	33		2	59	48		6		11	57	28		3	58	3				1 ad	11	57	28		3	58	3			
		27	7	35					1	59	2	7				6	1	9					12	4	48		6	1	9			
		27	27	46					2	36	5	6				6	51	39					12	6	23		6	51	39			
	o	27	47	19		9	10	58		5		12	24	17		4	15	45				2 ad	12	24	17		4	15	45			
		27	53	23					6	28	35	6					4	45	39			3 ad	12	28	16		4	45	39			
		28	35	40		10	13	14		6		12	43	56		3	49	51					12	43	56		3	49	51			
		28	37	5					3	17	42	6				1	1	25					12	48	57		1	1	25			
	8	28	55	44		2	43	47		4		14	15	55		9	3	19					14	15	55		9	3	19			
	11	29	2	16		10	40	38		3		14	22	28		0	33	14					14	22	28		0	33	14			
		29	32	41					4	48	32	6				7	1	31					14	41	18		7	1	31			
	f	29	42	7		2	23	30		5		17	3	44			7	16	43				17	3	44			7	16	43		
		29	43	15					7	58	31	6				1	22	54					17	56	47		1	22	54			
		29	51	55		4	56	30		6		18	16	15		2	4	20					18	16	15		2	4	20			
		29	58	16					1	21	25	6				4	26	26					1 ad	18	34	33		4	26	26		
													18	35	20		4	16	40				2 ad	18	35	20		4	16	40		
1 ad	g	30	54	55					9	36	24	6				8	52	35					b	18	42	18		8	52	35		
	g	1	3	54					1	12	33	5				1	46	36						18	48	28		1	46	36		
		1	13	10					2	30	40	6				1	24	53						19	13	58		1	24	53		
		1	41	48		4	49	11		6			20	34	43		3	37	54					20	34	43		3	37	54		
		2	23	11		8	14	49		3			20	52	27		9	1	58					20	52	27		9	1	58		
		3	2	33					1	18	10	6				4	15	34						21	5	46		4	15	34		
1 ad	τ	3	40	24					5	55	4	5				1	19	50						21	48	21		1	19	50		
		4	7	20					1	48	50	6				3	25	7						22	16	36		3	25	7		
	π	4	16	51		10	29	8		5			22	28	40		10	5	c					22	28	40		10	5	c		
2 ad	τ	4	16	52					5	38	42	5				2	11	39						22	47	44		2	11	39		
		4	25	11					8	37	1	6				7	12	12						23	18	38		7	12	12		
	δ	4	33	49					8	11	17	3				2	1	47						23	41	7		2	1	47		
		4	34	31		8	51	36				4				5	42	33						23	42	36		5	42	33		
	κ	5	6	13		4	7	47				5				3	7	49						23	56	55		4	32	43		
		5	10	45					2	44	36	6													23	57	34		3	7	49	
		5	12	26		6	55	47				6				5	46	55						24	36	38		5	46	55		
		5	20	9		1	5	6		4	45	24				2	57	45						24	53	4		2	57	45		
		5	49	58								7												24	55	24		2	36	30		
		5	54	23					4	11	8	6				3	28	57						24	59	44		3	28	57		
	η	6	4	53		8	9	42				4				10	1	30						26	35	c		10	1	30		
		6	56	2		0	3	28				6				3	12	42						26	39	45		3	12	42		
		7	14	41					0	23	0	4				3	9	54							26	48	35		3	9	54	
		7	50	34					0	12	44	6													27	22	55		6	58	13	
		9	28	5					0	43	10	7													27	24	45		9	24	26	
		9	42	30		1	41	29				7													28	14	55		6	22	15	
		9	55	30					0	23	0	7													29	38	41		7	31	43	
1 ad	b	10	4	10					1	40	14	6												1 ad	29	49	12		7	57	50	
2 ad	b	10	4	59					1	44	15	7																				
3 ad	b	10	8	41					1	57	45	6																				
4 ad	b	10	37	30					1	52	34	6																				

F I N I S.

ABRAHAMUS SHARPIUS

De Villa vulgo vocata Little Horton, prope Urbem de Bradford in Agro Eboracensi, Medicus Vir perquam peritus; postquam antecedentem Fixarum CATALOGUM FLAMSTEEDIANUM ad Annum 1726 provecum habuisset; Exinde, atque a Fixarum Distantiis quibusdam in Insula Sanctæ Helenæ observatis, sequentem Fixarum quarundam Australium in Nostro Hemispherio non adspectabilium Catalogum Nobis exaravit & ad Annum 1726 adaptavit.

In Constellatione SCORPII.

STELLARUM Denominatio.	Recta Ascensio	Distantia a Polo B			Longitudo			Latitudo			Varia. Afs. R.		Varia. Dia P.		Magnitudo		
		0	1	2	0	1	2	0	1	2	1	2	1	2			
In secundo Spondylo præcedens	α	248	14	30	52	26	10	12	15	14	15	24	59	72	12	8 38	3
Nebula tertii Spondyli	β	248	36	01	48	40	42	13	8	40	19	5	05	74	43	8 29	4
huc contigua	γ	248	44	20	48	7	08	13	20	12	12	37	12	75	01	8 19	4
In quarto Spondylo	δ	253	6	14	47	8	10	16	53	04	20	8	53	76	22	6 41	4
In quinto Spondylo	ε	259	23	0	47	11	39	21	44	57	19	37	36	76	50	4 9	2
In sexto Spondylo	ζ	262	4	41	49	19	47	22	40	19	16	41	41	74	57	3 32	4
In septimo Spondylo	η	260	51	52	51	8	24	22	37	29	15	36	38	74	00	3 32	4
Informis sequens Candam	θ	262	50	55	53	2	32	24	7	30	13	37	15	72	53	2 44	4
Inter Caudam & Arcum 7ii	ι	263	56	15	55	12	51	24	55	24	11	24	34	71	35	2 17	4

In Constellatione SAGITTARII.

In priore dextro suffragine	α	269	49	50	53	13	15	29	51	32	13	17	45	72	54	0 3	4
In sinistro suffragine Australis ad	β	285	47	10	44	43	31	31	57	16	22	26	50	78	08	6 42	4
Boreæ ad	γ	285	40	25	45	4	01	11	54	44	22	5	47	77	51	6 41	4
In Genu sinistro priore	δ	286	8	04	48	52	53	12	44	32	18	19	51	74	58	6 54	4

In Constellatione BRIDANI.

De quatuor præcedentium sequens	α	55	48	54	54	27	46	10	9	25	13	15	26	40	50	13	27	4
media	β	54	49	14	52	38	55	7	56	29	4	19	01	40	8	13	39	4
austriana	γ	54	37	44	51	32	46	6	42	25	55	33	22	39	32	12	43	4
Omnes quatuor præcedens	δ	53	10	22	51	50	15	5	4	58	54	50	10	40	00	14	13	4
Has præcedentium dextrum sequens	ε	51	50	04	48	51	04	1	6	33	57	4	48	38	36	15	14	5
earum præcedens	ζ	47	12	02	45	52	52	22	53	15	58	2	36	38	2	16	10	5
Ultima Fluminis in Veteri Catalogo	η	41	54	20	48	34	22	19	19	17	53	44	52	40	56	17	43	3
hanc præcedens	θ	37	22	30	48	55	34	14	45	56	51	43	03	42	23	18	54	4
Trium in recta descendentium boreæ	ι	37	14	09	45	55	07	11	59	25	54	13	13	41	00	18	57	4
media	κ	34	7	44	41	4	17	3	57	45	56	57	53	39	36	19	43	4
austriana	λ	31	35	15	37	12	35	37	1	03	58	56	48	38	30	20	17	4
Hanc præcedens	μ	26	12	47	37	00	08	22	9	13	56	58	17	41	56	21	25	4
Ultima ACHERNAR	ν	21	45	08	31	21	50	11	19	45	59	19	06	40	28	22	9	1
Informis intra Ultimam sinistram	ξ	45	7	08	59	55	46	0	0	42	41	44	44	45	14	16	47	4
Fluvii	ο	61	13	53	47	3	03	11	57	58	61	43	43	39	56	11	24	4
Inter Fluvium & Candam Xiphiz	π																	

In Constellatione COLUMBÆ Nochi.

STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo.	Latitudo	Varia. Asc. R.	Varia. Dias P.	Magnitudo
	0 1 2	0 1 2	0 1 2	0 1 2	1 2 3	1 2 3	1 2 3
Lucidarum præcedens sequens	82 26 41 85 20 05	55 46 59 54 7 16	118 21 34 57 23 41 22 35 46 59 15 31		38 53 37 48	9 29 3 1 47 2 3	
Omnes præcedens	80 24 0	54 20 16	14 54 27 58 38 34		38 5	3 52 4	
Omnium boreæ Sequens priorem lucidarum Sequens alteram lucidarum	83 57 57 85 48 25 86 58 15	57 35 10 56 8 30 54 41 18	20 56 16 55 42 26 23 33 23 57 16 06 25 13 59 58 44 31		39 56 39 2 38 8	2 32 6 1 38 5 1 7 5	
In Capite Columbæ Prima in Ramo 2d* in Ramo vel a Canis majoris Ultima in Ramo	89 32 07 91 41 53 92 59 59 94 29 30	52 47 13 54 56 41 56 41 30 57 35 03	29 14 39 60 41 42 2 39 46 58 31 23 4 34 28 56 44 38 6 45 13 55 47 37		36 52 38 16 39 20 39 58	0 31 5 0 50 5 1 22 5 2 11 5	

In Constellatione ARGUS Navis.

In Puppi duarum Austrina In medio Scuto In extremo Gubernaculo	114 11 40 111 55 16 116 41 57	64 45 05 63 49 51 60 24 43	2 17 03 45 3 08 29 40 48 47 24 53 7 8 40 49 40 47		44 45 44 8 42 54	9 57 5 9 5 3 10 53 0	
In Carina Poppis In Solio Puppis trium præcedens media sequens	106 53 52 112 28 14 113 52 52 115 45 38	53 24 03 52 19 31 52 42 23 51 51 19	26 38 09 58 31 55 2 39 46 58 31 55 7 6 24 57 44 05 10 16 02 58 4 27		38 3 37 58 38 23 38 8	7 9 3 5 17 5 9 48 4 10 31 5	
Lucida in Transfro hanc præcedens	118 29 49 115 42 58	50 47 01 50 7 52	14 46 31 58 20 37 11 19 21 59 42 38		37 53 37 2	11 17 2 10 30 4	
In Statione Mali borealium sequens præcedens australium sequens	128 38 41 127 3 48 129 10 41	48 21 13 47 57 47 44 58 22	29 54 05 57 21 30 38 16 24 58 14 45 3 42 27 60 7 53		38 25 37 50 36 30	15 3 5 14 30 5 15 12 5	
In medio Mali duarum australis borealis	127 53 00 127 19 09 128 8 40	44 20 22 51 40 10 57 48 42	2 45 38 61 8 17 22 58 28 51 9 53 22 42 05 48 55 16		35 44 42 3 43 12	14 46 5 13 37 4 14 52 3 4	
In summo Velo præcedens sequens	129 43 01 130 54 42	63 18 12 63 22 04	21 40 27 43 18 22 38 0 39 42 52 09		45 47 45 57	15 24 4 15 46 5	
In Sectione Transfri In eadem Sectione australior Inter Remos in Carina Lucida in Seratione	134 27 02 133 40 0 110 10 0 120 16 35	47 41 26 44 0 26 47 15 39 43 29 53	7 21 51 55 52 03 10 01 42 59 18 36 4 58 47 63 47 21 23 34 07 64 26 51		39 30 37 9 34 17 33 15	16 51 2 16 36 5 8 22 3 4 12 10 2	
Fulgens infra Carinam Inter hanc & lucidam in Statione Duar. hanc sequentium australior borealis	124 13 12 117 28 11 129 15 19 128 5 33	31 24 30 37 47 15 36 19 40 38 4 35	19 20 40 46 73 38 59 26 58 39 70 17 59 15 6 26 67 10 36 12 56 10 66 15 44		22 45 27 39 29 50 30 54	13 42 2 11 7 3 15 13 2 15 11 4	
In boreæ parte Sectionis Carinæ In eadem Sectione australior hac etiam australior Duar. Sectionem hanc sequens earum præcedens	138 22 22 140 40 42 141 34 55 137 26 22 135 54 32	36 11 39 34 11 28 32 1 08 31 54 17 32 11 25	25 3 13 63 42 03 20 0 22 49 64 13 53 4 54 36 65 21 30 1 32 02 67 4 54 29 35 19 67 30 10		33 22 32 44 31 16 29 3 28 26	17 57 2 18 35 4 18 49 5 17 40 2 17 14 4	
Int. hanc & Piscem volante in boreæ earum sequens Sectionem sequentium boreæ austrina	132 11 21 136 13 12 146 47 45 144 23 08	30 25 49 28 50 15 26 44 59 28 47 08	29 53 19 70 6 30 7 2 14 69 27 31 2 8 55 59 56 06 13 13 59 66 17 16		24 55 24 56 37 36 29 40	16 8 5 17 18 5 20 4 4 19 31 5	
Boreæ in Temone hanc præcedens informis	97 22 41 87 43 26	47 3 05 47 10 32	13 24 32 66 5 19 25 50 54 66 16 30		33 00 32 54	3 12 3 0 49 5	
Austrina in Temone CANOSUS sequens Canobum Quæ præcedit Canobum informis	94 30 44 100 48 07 85 15 36	37 28 04 39 43 45 38 0 28	11 16 49 75 50 19 23 30 28 72 51 14 23 0 51 74 27 30		23 58 26 45 25 26	1 58 1 4 36 3 1 54 4	
Inter Canobum & Piscem volante Quæ Sect. Transfri seq. ad boream Inter Navem & Centaurum boreæ	101 22 29 139 57 03 140 47 23	28 23 18 50 44 32 49 15 22	20 37 49 83 1 59 10 56 22 51 9 46 23 11 20 48 14 45		11 37 42 26 45 2	4 45 4 18 24 4 20 57 4	

In Constellatione ROBORIS Carolini.

STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Varia. Asc. R.	Varia. Decl. P.	Magnitudo
	h m s	° ' "	° ' "	° ' "	h m s	° ' "	h m s
Que est ad Radicem	137 25 37	21 27 07	228 7 26 72	13 08	+13 39	-17 38	2
In summo Trunco	158 12 45	27 4 32	25 18 30 62	7 34	37 46	22 15	3
In Ramis præcedent. quatuor borea	154 23 33	32 40 26	14 0 16 59	52 04	38 57	21 37	5
sequens	158 33 03	31 47 10	18 17 26 58	54 43	41 1	22 18	4
præcedens	151 55 56	30 3 52	16 13 48 62	35 12	35 38	21 8	4
media	155 30 46	29 45 26	19 11 44 61	55 28	37 46	21 47	4
In Ramis sequentibus duarum borea	170 42 28	28 31 26	11 0 39 44 56	46 47	48 10	23 35	4
austalina	173 5 29	24 49 12	7 6 58 53	29 37	49 3	23 45	5
In summa arbore duar. præcedens	156 25 04	43 12 28	2 3 41 51	2 46	44 46	21 54	4
sequens	158 43 04	42 02 55	6 39 58 51	4 21	45 30	22 20	3
Informis ad Truncum præcedens	145 01 00	26 13 37	19 3 21 67	28 33	+27 10	-19 39	4
sequens	151 43 07	21 22 20	11 3 32 15 67	21 18	+26 04	-21 06	4

In Constellatione CENTAURI

Humerus præcedens	196 21 46	54 45 24	229 22 04 25	56 56	59 57	22 54	3
In Armo sinistro	198 51 16	52 0 47	11 2 42 06 27	34 53	61 14	22 38	4
In Scuro præcedentium borea	1211 3 40	52 22 29	11 55 27 22	27 08	64 23	20 22	4
austalina	211 37 55	51 40 37	13 1 54 23	47 02	65 7	20 15	4
Sequentium duarum borea	216 45 40	56 2 26	15 34 17 18	19 58	64 44	19 2 4	
austalis	216 18 19	52 25 29	16 3 47 20	55 09	65 43	19 8	4
In latere dextro trium præcedens	202 15 53	49 43 38	7 18 04 28	12 59	63 17	21 53	4
media	203 20 03	48 54 52	7 44 28 28	55 59	63 32	21 52	4
sequens	205 25 44	49 14 52	9 12 28 27	58 33	64 6	21 30	4
In Brachio dextro	207 18 52	50 8 05	10 18 14 26	35 10	64 24	21 8	5
In dextro Cubito	214 33 12	49 4 39	16 25 33 25	28 6	67 1	19 34	3
In extrema Manu dextra	220 21 59	49 0 45	20 58 34 24	0 04	68 43	18 3	4
In eductione Corporis humani	224 41 23	44 6 19	11 9 29 32	52 14	65 36	21 37	3
Duarum obscurarum sequens	226 17 0	45 44 36	11 32 24 30	54 40	65 35	21 20	5
præcedens	205 32 44	46 33 45	10 34 55 30	23 14	65 2	21 29	5
In Dorso equino	224 34 26	44 0 09	5 52 40 35	10 49	62 46	22 44	N
In Lambis duarum sequens	186 39 32	42 34 01	22 32 26 40	6 29	58 12	23 44	2 3
præcedens	185 42 51	42 59 32	27 32 05 40	4 24	57 49	23 41	4 5
In dextro Femore 2 ^{um} borea	178 35 38	40 49 54	23 41 23 44	27 21	54 32	23 54	3
austalis	179 23 50	39 11 37	25 35 53 45	31 06	54 58	23 54	5
Et duabus Femur sequent. australis	182 58 02	40 5 30	27 32 26 43	30 04	56 45	23 51	6
borea	183 21 12	41 16 52	26 56 57 42	21 58	56 51	23 51	5
Clavis in Alvo	200 41 07	37 59 44	11 43 09 39	30 16	66 10	22 18	2
De 4 ^{ta} Crociferis dictis borea	184 5 54	34 27 11	2 56 28 47	44 49	57 52	23 42	2
Pes Crucis austalina	182 57 34	38 27 04	8 5 23 52	48 24	57 40	23 52	2
præcedens Crucis	180 15 33	32 47 49	1 54 16 50	21 13	55 30	23 54	3
sequens Crucis	188 1 57	31 50 47	7 51 31 48	34 01	60 47	23 59	2
In Pede dextro	215 25 35	30 20 07	26 5 57 42	26 58	79 14	22 18	1
In Genu sinistro	206 13 56	31 0 03	19 59 17 44	3 47	73 7	21 19	2
Inter hanc & præcedent. Trianguli	214 12 28	26 16 32	13 32 12 26	7 04	82 27	19 27	2

In Constellatione LUPI

In summo Pede ad manum Centauri	220 11 00	48 0 47	11 12 23 24	59 20	69 5	18 6	3
In Poptite Pede ejusdem	215 58 39	43 50 17	19 41 13 29	57 42	69 23	19 13	3
Duarum Australium borea	214 59 47	41 49 18	19 51 28 32	4 49	70 44	19 10	5
austalina	213 40 05	42 47 58	19 22 26 33	21 50	70 41	19 45	5
Contigus 1 ^o Lupi	218 25 59	47 35 29	20 1 02 55	49 40	68 51	18 34	5
In Armo duarum præcedens	225 53 23	50 24 22	24 50 19 21	21 05	68 26	16 28	4

In Constellatione LUPI.

STELLARUM Denominatio.	Repositio	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Variat. Asc.R.			Variat. D. a P.			Magnitudo
		0	1	11	0	1	11	0	1	11	0	1	11	1	11	11	1	11	11	
In Armo duarum sequens		229	12	55	49	48	28	27	36	43	21	11	16	73	29	13	32	4	4	
In medio Corpore		226	3	21	46	20	36	26	18	05	25	11	14	71	42	15	24	4	5	
In Alvo		222	29	28	45	42	52	22	54	38	26	27	47	71	1	17	21			
In Femore		221	43	28	44	03	27	23	51	58	28	27	28	71	44	17	41	5		
In educatione Femoris borea		224	56	06	43	10	27	26	34	26	28	25	38	73	28	16	46	5		
australis		223	16	50	42	20	28	25	40	18	29	35	56	73	12	17	13	5		
In humero Lumbi		223	8	00	39	00	38	26	33	19	32	45	55	75	23	17	15	5		
In extrema Cauda ^{2^a} australis		210	32	16	45	13	39	15	0	07	30	8	50	67	20	20	28	5		
borealis		212	8	11	46	3	19	19	50	19	24	56	18	67	21	20	7	5		
Ante Collum precedens		226	8	39	54	46	38	23	41	08	17	6	47	67	22	16	25	5		
sequens		226	26	30	54	9	52	24	6	49	17	37	47	67	43	16	18	6		
In Jugulo duarum australis		235	16	21	52	31	09	1	43	50	17	21	00	70	15	13	26	5		
borealis		226	59	23	54	5	35	2	44	50	15	30	00	69	41	12	50	5		

In Constellatione ARÆ THURIBULI.

In Bali duarum borea		253	47	32	43	45	11	21	39	52	23	5	25	79	37	4	24	5		
australis		266	15	02	39	57	01	27	18	30	26	36	05	83	39	1	17	5		
In medio Aræ		257	29	26	40	22	32	21	5	56	26	29	30	82	25	4	50	4		
In Foco trium borea		249	30	36	37	17	54	15	47	21	30	13	34	84	30	8	6	3		
australis		255	35	26	33	56	53	20	27	32	33	2	44	89	36	5	40	4		
media		255	39	04	34	48	01	20	22	43	32	11	43	88	31	5	38	4		
In media Flamma		249	4	35	34	29	55	16	2	21	33	1	46	87	46	8	15	4		
In summa Flamma precedens		246	37	01	31	30	07	15	6	17	36	13	12	88	1	9	12	4		
sequens		256	37	39	29	36	36	22	44	20	37	17	24	96	9	5	14	4		

In Constellatione CORONÆ AUSTRALIS.

Quæ foris præcedit ad Austrum	α	271	44	06	43	55	05	1	18	13	22	36	23	79	50	1	00	4		
sequens in Corona	β	277	11	29	46	4	37	5	31	37	20	34	40	77	50	3	15	6		
hanc sequens	γ	280	51	02	47	33	55	8	27	49	19	16	12	76	24	4	45	6		
hanc sequens	η	282	14	18	49	7	34	9	41	31	17	48	08	75	9	5	18	6		
Ante Genu Sagittarii trium media	γ	282	37	04	51	42	56	10	14	14	15	15	57	73	23	5	28	5		
australis	δ	282	42	23	50	15	42	10	10	16	16	42	12	74	20	5	30	5		
borea	δ	281	52	52	52	34	55	9	49	59	14	20	08	72	53	5	10	5		
In Ambitu borco duarum sequens	μ	279	58	37	52	34	50	8	9	38	14	13	08	73	00	4	23	6		
precedens	ν	279	25	28	52	21	41	7	41	29	14	24	16	73	11	4	9	6		
Borealisima Coronæ	ι	276	22	31	54	9	44	5	17	24	12	28	18	72	9	2	53	6		
Australior & precedens	κ	273	31	45	51	9	50	2	51	02	15	23	15	74	41	1	42	6		
hæc australior	λ	273	24	46	47	33	04	2	39	46	18	59	50	76	50	1	42	6		

In Constellatione GRUIS.

In Capite		324	19	03	51	24	32	13	35	58	22	58	55	65	56	19	37	3		
In medio Colli		327	20	46	49	10	08	15	5	36	25	54	45	65	57	20	14	5		
In educatione Colli borea		329	42	27	47	19	51	16	8	02	28	17	04	65	54	20	46	5		
austrina		329	56	36	47	2	18	16	11	04	28	37	1	65	56	20	48	5		
In Dorso duarum borea		333	9	38	45	7	25	17	44	13	31	18	31	65	30	21	26	5		
australis		333	15	27	44	52	27	17	41	17	31	33	5	65	36	21	27	5		
In dextra Ala borealior		342	47	46	45	1	12	24	50	33	34	23	54	62	22	22	54	5		
australior		344	38	29	43	18	02	24	37	41	36	11	34	61	55	23	00	5		
In Ala sinistra		327	39	30	41	44	54	12	2	9	32	50	39	69	4	20	19	2		
In educatione Caudæ		336	26	23	41	41	25	18	23	88	35	22	43	65	26	22	00	2		

In Constellatione GRUI.

STELLARUM Denominatio.	Reverſa	Aſcenſio Reſta			Diſtantiā a Polo A	Longitudo			Latitudo			Variat. Aſc. R.			Variat. Deſ. P.			Magnitudo	
		h	m	s		h	m	s	h	m	s	h	m	s	h	m	s		
In Cauda trium borea		337	52	58	37	15	12	16	49	58	39	43	9		66	32	27	13	4
præcedens		337	5	54	35	5	24	14	54	31	41	24	06		68	42	22	5	5
ſequens		341	2	17	35	48	09	18	2	741	55	14			66	14	22	4	4

In Constellatione PHENICIS.

In Capite lucida		3	6	17	46	12	37	11	35	32	40	33	45		53	38		23	53	2
In Collo		3	8	26	44	48	50	10	38	06	41	15	41		54	38		23	53	4
In ancone Alæ dextræ		358	49	20	42	44	51	5	46	10	41	54	30		55	23		23	54	4
In Alâ dextra trium australis		350	44	49	43	1	04	19	47	46	33	42	11		58	55		23	37	4
media		350	09	22	45	53	32	1	3	37	36	5	3		58	49		23	35	4
borea		349	32	43	50	42	02	3	33	4	31	39	55		58	26		23	31	4
In extrema Alâ ſiniſtra		19	3	12	45	16	01	24	14	17	17	33	17		47	13		22	33	3
Ejuſdem Alæ eduſtio		7	0	35	42	24	30	11	54	14	15	14	6		51	39		23	43	4
Ad Pedem dextram		4	27	09	39	41	02	7	41	33	46	31	00		52	35		23	51	4
In Foco ſub Alâ ſeva australis		19	52	44	39	28	37	19	38	31	52	34	22		45	22		22	25	3
borealis		13	19	44	41	41	44	16	32	58	48	14	27		48	43		23	13	3
In Foco ſub Alâ dextra præcedens		7	37	53	31	0	17	1	24	07	54	24	16		49	31		23	41	3
ſequens		14	8	9	33	17	42	1	27	38	55	5	25		45	59		23	16	4

In Constellatione PAVONIS.

Oculus Pavonis		309	57	03	32	27	47	20	0	03	36	11	18		86	55		12	29	2
In Peſtore		315	45	41	23	27	55	24	47	51	46	56	21		92	40		17	21	3
In Radice Alæ dextræ		304	59	19	22	54	06	18	41	38	45	52	36		100	39		14	00	3
In media Alâ		295	22	24	23	14	12	13	42	28	14	29	08		104	46		10	31	3
In eduſtione Caudæ 1 ^a		277	18	36	22	30	43	3	52	24	44	6	13		112	02		3	25	5
2 ^a		274	47	44	24	56	33	2	42	11	41	37	00		106	08		2	22	5
3 ^a		276	35	42	27	33	01	3	55	22	39	3	23		100	26		3	05	4
4 ^a		278	24	33	39	29	26	5	11	03	37	10	46		96	33		3	43	6
5 ^a		271	23	12	27	37	00	0	49	34	38	54	14		100	41		0	06	5
6 ^a		269	25	47	28	27	26	29	39	17	38	3	36		99	08		0	06	4
7 ^a		261	29	47	26	43	59	27	22	54	40	9	23		103	07		1	31	5
Ultima		259	42	15	25	29	39	24	7	44	1	28	02		101	57		17	57	4
In dextro Pede		272	53	39	18	25	47	1	22	41	48	6	03		126	34		1	35	4
In ſiniſtro Pede		292	6	52	16	37	42	9	43	27	50	49	07		129	56		8	28	4

APUS, AVIS INDICA.

In Capite		253	15	51	22	29	05	21	6	38	44	32	55		110	45		6	31	5
In Collo		252	46	18	20	9	28	21	24	49	46	52	22		117	45		6	41	6
Trium in eduſtione Caudæ borea		240	52	25	13	6	41	19	2	03	54	31	07		146	25		11	12	4
media		234	41	43	12	4	17	17	31	02	55	39	09		147	31		13	24	5
auſtrina		237	37	49	11	47	01	18	43	32	56	0	22		154	45		12	25	4
In borea parte Caudæ præcedens		216	16	59	17	36	33	9	43	00	52	2	56		109	51		16	33	6
ſequens		227	21	59	17	30	28	10	44	10	51	51	33		112	05		15	54	6
In media Cauda trium boreſior		213	27	00	12	11	49	10	26	44	53	13	08		118	27		19	43	4
media		207	22	05	11	14	42	9	53	26	59	45	02		112	50		21	04	6
auſtrior		206	04	20	10	22	14	10	48	29	50	32	10		115	29		21	17	5
Polo viciniſ		206	12	26	8	1	51	14	28	24	52	4	45		134	38		21	14	4

In Constellatione MUSCÆ Apis.

STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo A	Longitudo	Latitudo	Varia. Asc. R.	Varia. D. a P.	Magnitudo
	0 1 2	0 1 2	0 1 2	0 1 2	1 2 3	1 2 3	
In Capite	187 28 20	23 25 16	116 20 41	55 11 10	+ 62 54	-23 43	4
In Ala dextra	185 21 51	22 23 14	16 36 29	56 29 50	+ 61 02	-23 47	4
In Ala laeva	191 2 48	19 57 25	22 22 15	56 43 27	+ 68 26	-23 25	5
In Cauda	184 13 10	19 24 24	20 14 18	58 47 43	+ 60 42	-23 49	5

In Constellatione CHAMELIONTIS.

In prioribus pedibus	180 26 28	12 14 29	1 31 33	63 35 41	+ 56 49	-23 54	5
Ad Collum	176 20 40	13 19 02	128 26 37	63 56 38	+ 49 12	-23 52	5
In Dorso	157 48 24	12 51 33	26 30 16	68 4 29	+ 15 05	-22 09	5
In posterioribus pedibus	160 27 36	10 57 09	1 43 44	67 47 17	+ 13 12	-22 23	5
In educatione Caudæ præcedens sequens	142 51 35	10 27 59	3 33 49	71 1 05	+ 24 43	-19 00	5
	144 59 24	10 21 18	3 39 49	70 37 07	+ 21 36	-19 32	5
In media Caudæ præcedens sequens	132 23 24	12 6 10	0 16 42	73 25 56	+ 28 35	-16 03	5
	133 42 31	11 35 13	1 38 50	73 0 25	+ 30 50	-16 27	6
In extrema Caudæ borea	126 13 19	14 1 17	125 22 29	75 24 22	+ 23 05	-14 04	5
austrina	127 1 38	13 28 46	27 4 53	75 1 52	+ 25 34	-14 19	5

In Constellatione TRIANGULI.

Quæ in Cuspide borea Basis	244 56 20	21 33 48	17 1 49	46 4 51	+ 110 28	- 9 47	2, 3
hanc sequens	232 55 11	27 28 47	8 4 26	41 50 10	+ 92 16	-14 10	3
	237 41 44	27 5 16	11 1 32	41 32 41	+ 95 04	-12 3	5
austrina Basis	223 29 43	22 24 03	5 35 03	48 1 32	+ 95 49	-17 07	3
in medio Basis	228 3 37	24 40 15	6 40 17	45 12 48	+ 94 28	-15 44	5

In Constellatione PISCIS Volantis.

In Capite	134 28 11	24 43 07	216 46 14	72 11 05	+ 17 49	-16 48	5
In medio Corpore	121 34 44	22 14 45	20 15 49	77 44 31	+ 5 05	-12 36	5
In Cauda	107 45 37	19 59 30	6 1 39	82 35 27	+ 7 47	- 7 16	5
In Ala laeva superior	125 39 11	24 48 32	11 19 45	75 33 22	+ 12 50	-13 58	5
inferior	109 13 11	22 34 49	15 38 28	82 27 26	+ 0 34	- 7 42	5
In Ala dextra superior	125 6 33	19 24 16	3 31 11	76 45 00	+ 0 51	-13 45	6
inferior	116 15 35	18 6 10	11 54 38	79 21 46	+ 10 57	-10 33	5
Informis intra Chamelionta & Pisces Volantem	154 34 36	17 28 44	14 11 45	67 52 34	+ 23 07	-21 37	5

DORADO, XIPHIAS.

In Capite	92 33 40	21 14 58	7 36 27	87 33 48	+ 6 26	- 1 03	6
In Branchiis	78 31 17	22 33 56	13 11 57	85 25 29	+ 1 12	- 4 46	6
In Ventre	86 2 26	24 13 05	22 50 07	88 14 20	+ 2 03	- 1 38	5
Supra Dorsum	82 53 29	27 21 35	18 32 08	85 4 22	+ 9 13	- 2 56	4
In Cauda	67 8 26	34 23 20	4 5 31	74 38 11	+ 22 53	- 9 13	3, 4
In extrema Caudæ	62 19 06	37 48 45	2 44 28	70 12 28	+ 27 47	-11 01	4

In Constellatione TOUCAN, Anferis Americani.

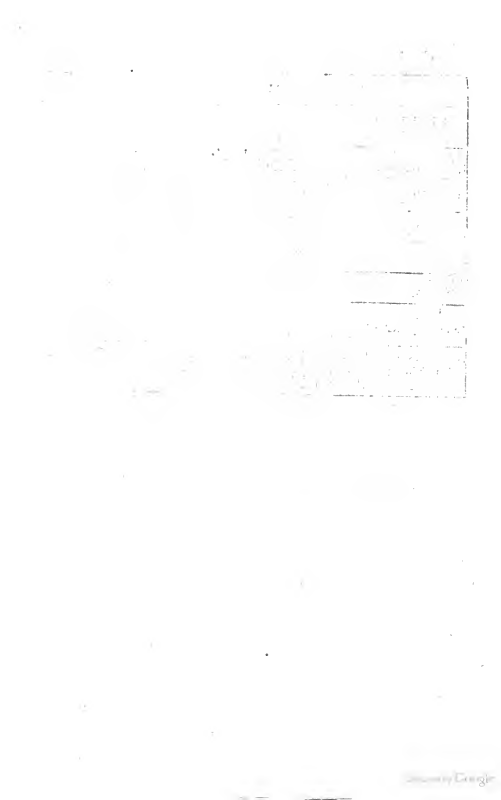
STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo A.	Longitudo	Latitudo	Varia. Asc. R.	Varia. D. a P.	Magna et Min.
	0 1 "	0 1 "	0 1 "	0 1 "	1 " "	1 " "	1 " "
In extremo Roistro	329 43 11	28 15 03	5 38 55	15 27 53	+76 52	+20 47	3
In Capite	345 15 00	30 16 25	16 32 55	17 48 45	+65 03	+13 11	3
In Ancone Alæ sinistra superior	355 40 33	25 33 28	17 51 17	54 32 11	+58 29	+23 47	5
inferior	355 59 39	24 16 10	16 27 47	55 33 21	+58 15	+23 52	5
In media Ala	1 13 39	23 31 39	18 8 45	57 36 04	+53 27	+23 54	3
hanc præcedens	356 14 38	22 53 52	14 50 15	56 35 22	+58 14	+23 52	4
In Dorso	4 37 08	25 34 45	22 43 32	57 15 38	+50 41	+23 49	3
In Cauda	7 13 51	22 57 15	20 14 19	59 46 53	+47 36	+23 42	5
In Rami folio vel Nuce Myristica	331 46 34	23 40 31	3 16 34	49 50 44	+80 03	+21 12	4

In Constellatione HYDRI.

In Capite	27 23 54	27 4 45	8 4 34	54 10 20	+33 28	+21 11	3
Colli prima	27 9 13	20 58 54	25 6 36	67 8 36	+26 37	+21 04	5
secunda	24 25 41	20 4 55	25 17 13	69 50 46	+18 14	+19 45	4
tertia	39 2 48	20 33 36	28 2 12	71 14 49	+15 05	+18 32	4
quarta	40 29 41	21 14 00	30 50 54	71 33 18	+15 17	+18 09	5
Inter utramque Nubeculam 2 ^{am} } sequens }	58 5 24	14 57 53	6 34 48	76 45 35	-20 13	+12 42	3.4
præcedens	43 23 24	13 51 04	6 23 22	72 55 53	-10 45	+17 24	6
Quæ adjacet Nubeculæ minori	2 17 59	11 12 59	26 51 48	64 31 27	+49 26	+23 53	3
Collum Hydri sequentium 2 ^{am} } borea }	62 51 47	26 50 44	3 37 35	78 5 20	+13 07	+10 52	3.4
præcedens & austrina	55 19 09	24 21 55	17 32 56	76 5 22	+11 46	+13 34	5

Finis Catalogi Fixarum Australium.





CLAUDII PTOLEMÆI

Regularis Dispositio Constellationum Cœlestium:

S I V E,

FIXARUM CATALOGUS.

E Græco Sermone in Latinum Redditus, &
Collatione facta cum M.S. *Oxonienſi* editisq; Verſio-
nibus Trapezuntii, Gaurici, Copernici & Clavii;
& cum ipsis Cælis, pluribus in Locis Emendatus.
Cui etiam adjicitur *Ulugh Beighi* Catalogus.

A JOHANNE FLAMSTEEDIO, M.R.

In Constellatione URSAE MINORIS.

Urdo	STELLARUM Denominatio.	Ptole. Longit.	Ptole. Latit.	Ul. Beig. Longit.	Ul. Beig. Latit.	Magnitud.
1	Quae in Extremitate Caudae, <i>Polaris</i>	α 11 0 10 66 00	B 5 0 1 0 1	11 20 19 66 27	B 3	4
2	Posthanc in Cauda	β 2 30 70 00	3 25 0 0	22 25 70 00	4	3
3	Ante Educationem Caudae	γ 16 00 74 0	5 0 53 73 45	16 00 74 0	4	4
4	Australis praecedentis lateris quadrilateri	δ 29 20 75 40	17 13 75 36	29 20 75 40	4	4
5	Ejusdem lateris Boreae	ε 3 40 77 40	24 15 78 00	3 40 77 40	4	4
6	Australis sequentis lateris □	ζ 17 20 72 50	13 55 75 9	17 20 72 50	2	2
7	Ejusdem lateris Boreae	η 26 10 74 50	13 55 75 9	26 10 74 50	2	2
8	Circa URSAM Informis	θ 13 00 71 10	0 55 71 45	13 00 71 10	4	4

In Constellatione URSAE MAJORIS.

1	Quae in Rostris	α 11 25 39 50	B 14 55 40 15	11 25 39 50	B 4	4
2	Illarum inter duos Oculos praecedens	β 25 50 43 0	15 43 43 48	25 50 43 0	5	5
3	sequens	γ 25 20 43 0	16 34 43 45	25 20 43 0	5	5
4	In Fronte duarum praecedens	δ 26 10 47 10	16 25 47 54	26 10 47 10	5	5
5	sequens	ε 27 40 47 0	17 43 47 51	27 40 47 0	5	5
6	In Extremitate Auris praecedentis	ζ 28 10 50 30	18 25 51 18	28 10 50 30	5	5
7	Duarum in Collis praecedens	η 0 30 43 50	19 43 44 42	0 30 43 50	4	4
8	sequens	θ 2 30 44 20	22 49 44 54	2 30 44 20	4	4
9	Duarum in Pectore Borealis	ι 9 0 44 0	21 19 38 0	9 0 44 0	4	4
10	Australior	κ 11 0 42 0	28 31 42 39	11 0 42 0	4	4
11	In sinistro Genu	λ 10 40 35 0	29 22 34 45	10 40 35 0	3	3
12	In sinistro praecedente Pede Boreae	μ 5 30 29 20	24 55 29 21	5 30 29 20	3	3
13	Australior	ν 6 20 28 20	25 43 29 0	6 20 28 20	3	3
14	Supra Genu dextrum	ξ 5 40 36 0	25 16 36 0	5 40 36 0	4	4
15	Infra Genu dextrum	ζ 5 50 33 20	25 25 33 21	5 50 33 20	4	4
16	In □ super costis, vel in Humero	η 17 40 49 0	27 25 49 24	17 40 49 0	2	2
17	Ad latus, vel in Ventre	θ 22 10 44 30	11 37 45 9	22 10 44 30	2	2
18	In Educatione Caudae	ι 3 10 51 0	23 25 51 30	3 10 51 0	3	3
19	Reliqua in sinistro posteriore Femore	κ 3 0 46 30	22 31 47 15	3 0 46 30	2	2
20	Duarum in sinistro posteriore Pede, praecedens	λ 22 40 39 20	11 40 39 45	22 40 39 20	3	3
21	sequens	μ 24 10 28 15	13 7 28 42	24 10 28 15	3	3
22	In Poplite sinistro	ν 1 40 35 15	20 46 35 15	1 40 35 15	4	4
23	In dextro posteriore Pede Boreae	ξ 9 50 25 50	20 0 26 0	9 50 25 50	3	3
24	Australior	η 10 20 25 0	0 25 24 45	10 20 25 0	3	3
25	Trium in Cauda ab Educatione prima	θ 12 10 53 30	0 31 54 9	12 10 53 30	2	2
26	media	ι 18 0 55 40	8 45 56 12	18 0 55 40	2	2
27	In Extremitate Caudae tertia	κ 29 50 54 0	10 10 54 9	29 50 54 0	2	2

Circa URSAM MAJOREM Informes.

1	Quae sub Cauda ad Austrum ab ea distat	α 27 50 39 45	16 55 40 15	27 50 39 45	3	3
2	Hanc praecedit obscurior	β 20 10 41 20	10 40 39 5	20 10 41 20	5	5
3	Inter Pedes priores Urse & Caput Leonis, Australior	γ 15 0 17 15	4 17 33	15 0 17 15	4	4
4	Hae borealis	δ 13 20 19 10	2 37 19 42	13 20 19 10	4	4
5	Reliquarum trium obscuriorum sequens	ε 16 10 20 0	5 40 20 18	16 10 20 0	obsf.	obsf.
6	* hanc praecedit	ζ 12 10 22 50	5 10 23 45	12 10 22 50	obsf.	obsf.
7	Hanc adhuc praecedit	η 11 10 3 0	29 31 29 15	11 10 3 0	obsf.	obsf.
8	Inter Pedes priores & Geminis	θ 0 22 15	19 31 23 0	0 22 15	obsf.	obsf.

In Constellatione DRACONIS.

Ordo.	STELLARUM Denominatio.	Boreo- Circulus.	Ptol. Longit.			Ptol. Latit.			Ul. Berg. Longit.			J. Berg. Latit.			Magna Stellae.
			5	0	1	5	0	1	5	0	1	5	0	1	
1	Que in Lingua	μ	22	40	76	30	B	17	31	76	15	E			4
2	In Ore	η	11	50	78	30		2	40	78	21				4
3	Supra Oculum	β	13	10	75	40		3	17	75	30				3
4	Ad Genam	ε	27	20	80	20		18	55	80	0				4
5	Supra Caput	γ	29	40	75	30		21	55	75	0				3
6	Trium in recta in prima inflexione Borea	δ	24	40	82	20		15	10	82	9				4
7	Australis	κ	20	20	78	15		24	10	78	15				4
8	Media	λ	28	50	80	20		20	40	80	33				4
9	Hanc sequens ad Ortum	ο	19	30	81	10		10	40	81	24				4
10	In U inflexionis primæ præcedentis lateris Borea	π	8	0	81	40		27	18	81	45				4
11	Australis	τ	20	30	83	0		10	13	83	0				4
12	Borea sequentis lateris	ι	2	40	78	50		25	10	79	9				4
13	Australis sequentis lateris	ρ	22	50	77	50		13	31	77	36				4
14	Australis Δ in sequente flexu	σ	17	40	80	30		25	12	80	30				5
15	Reliquarum duarum in dicto Δ præcedens	υ	21	40	81	20		8	15	82	0				5
16	sequens	φ	26	10	80	15		16	34	80	15				5
17	Trium in Δ deinceps præcedente sequens	χ	13	20	84	30		4	13	84	12				4
18	Reliquarum duarum in præced. Triangulo Borealis	ψ	20	30	83	30		5	55	83	24				4
19	Australis	ω	11	50	84	50		2	31	84	42				4
20	Duarum ad Occidentem a Δ dicto sequens	ζ	28	40	87	30		11	40	87	15				6
21	præcedens	η	21	40	86	50		0	20	86	45				6
22	Trium deinceps in recta Australis	θ	9	0	81	15		28	18	81	57				5
23	Media	ι	9	20	80	20		27	31	80	4				5
24	Borealis	κ	8	20	84	50		24	34	85	15				3
25	Duarum inde Occidentem versus Borealis	λ	10	0	78	0		6	55	78	57				3
26	Australis	μ	13	0	74	20		8	37	74	30				4
27	Post has Occidentem versus in flexu Caudæ	ν	12	40	70	0		27	49	71	27				3
28	Præcedens duarum sat ab his distantium	ξ	9	20	64	40		27	25	65	21				4
29	Sequens	α	11	1	65	30		0	34	66	27				3
30	Hæc sequitur juxta Caudam	β	9	10	61	15		8	37	61	54				3
31	In Extremitate Caudæ	λ	12	10	56	15		2	25	57	9				3

In Constellatione CEPHEI.

1	Que in Pede dextro	κ	8	9	75	40	B	24	55	75	45	D			4
2	In Pede sinistro	ν	3	0	64	15		22	31	64	30				4
3	In Cingulo ad dextrum Latas	β	7	20	71	10		27	37	71	15				4
4	Tangit dextrum Humerum	α	16	40	69	0		4	24	68	36				3
5	Ad dextri Brachii Anconem ipsum tangens	η	9	20	72	0		26	25	71	33				4
6	Sub eodem Ancone ipsum tangens	θ	10	0	74	0		27	10	73	51				4
7	In Pectore	ε	28	30	65	30		16	10	65	45				5
8	In Gualtro Brachio	ι	7	30	62	30		25	4	62	30				5
9	Trium in Triang. Australis	ρ	16	20	60	15		5	55	60	0				5
10	Media	ζ	17	20	61	15		7	1	61	15				4
11	Borealis	λ	19	0	61	20		8	5	61	42				5
	Informis														
1	Præcedit Triam														
2	Sequitur Triam														

In Constellatione BOOTIS.

1	Que trium in sinistra Manu præcedens	κ	2	20	58	40	B	21	55	58	45	D			5
2	media	ι	4	10	58	20		23	43	58	51				5
3	sequens	θ	9	40	50	10		25	4	60	33				5

In Constellatione BOOTIS.

Ord.	STELLARUM Denominatio.	Repositio.	Ptol.		Ptol.		Ul. Beighi.		Ul. Beighi.		Repositio.
			Longit.	Latit.	Longit.	Latit.	Longit.	Latit.	Longit.	Latit.	
4	Que in sinistro Brachio Ancone	λ	9 40	54 42	9 40	54 42	23 55	54 45	23 55	54 45	5
5	In sinistro Humero	γ	19 40	49 0	19 40	49 0	23 55	49 24	23 55	49 24	4
6	In Capite	β	26 40	53 50	26 40	53 50	16 25	54 27	16 25	54 27	4
7	In dextro Humero	δ	5 40	48 40	5 40	48 40	25 16	49 0	25 16	49 0	4
8	Hic borealior, in Baculo recurvo	μ	5 40	53 15	5 40	53 15	25 46	53 27	25 46	53 27	4
9	Hic adhuc borealior in Extremitate Baculi	ν	5 0	57 30	5 0	57 30	25 45	57 15	25 45	57 15	4
10	Duarum sub Humero in Baculo, Borealior	ζ	7 40	46 30	7 40	46 30	27 37	46 27	27 37	46 27	4
11	Australior	η	8 30	45 30	8 30	45 30	28 31	45 48	28 31	45 48	5
12	In manu dextra	ω	8 10	41 40	8 10	41 40	27 55	41 45	27 55	41 45	5
13	Duarum in Carpo præcedens	ι	6 40	41 40	6 40	41 40	26 46	41 21	26 46	41 21	5
14	sequens	θ	7 0	42 30	7 0	42 30	26 55	42 48	26 55	42 48	5
15	In extremo manubrio Biculi recurvi	κ	7 40	40 20	7 40	40 20	27 28	40 42	27 28	40 42	5
16	Ad dextrum Femur in Perizomate	ρ	0 0	40 15	0 0	40 15	20 58	40 48	20 58	40 48	3
17	Duarum in Cingulo sequens	σ	25 40	41 40	25 40	41 40	16 16	42 9	16 16	42 9	4
18	præcedens	τ	25 0	42 10	25 0	42 10	14 40	42 4	14 40	42 4	4
19	In dextro Calcaneo	υ	5 20	28 0	5 20	28 0	25 19	28 0	25 19	28 0	3
20	Borea trium in sinistro Crure	π	21 20	28 0	21 20	28 0	11 43	28 0	11 43	28 0	3
21	Media	φ	20 30	26 30	20 30	26 30	10 12	26 45	10 12	26 45	4
22	Australior	χ	21 20	25 0	21 20	25 0	11 19	25 0	11 19	25 0	4
<i>Informes</i>											
1	Inter Femora rutilans digitus Arcturus	α	27 0	31 20	27 0	31 20	15 31	31 18	15 31	31 18	1

In Constellatione CORONÆ BOREALIS.

1	Que Est in Corona	α	14 40	34 30	14 40	34 30	4 34	44 30	4 34	44 30	2
2	Omnes præcedit	β	11 40	46 10	11 40	46 10	1 40	46 24	1 40	46 24	4
2	Hanc sequitur borealior	η	11 50	48 0	11 50	48 0	1 10	48 21	1 10	48 21	5
4	Hanc adhuc sequitur & borealior est	π	13 40	50 30	13 40	50 30	3 40	50 45	3 40	50 45	6
5	Lucidam sequitur ab Austro	γ	17 10	44 45	17 10	44 45	6 28	44 27	6 28	44 27	4
6	Sequitur 5 ^a in propinquo	δ	19 10	44 45	19 10	44 45	8 46	44 42	8 46	44 42	4
7	Post has rursus sequitur	ε	21 20	46 10	21 20	46 10	10 55	46 0	10 55	46 0	4
8	Omnes in Corona sequitur	ι	21 40	49 20	21 40	49 20	11 21	49 30	11 21	49 30	4

In Constellatione HERCULIS.

1	Que in Capite	α	17 40	37 30	17 40	37 30	7 55	37 9	7 55	37 9	3
2	Duarum in dextro Humero juxta Axillam	β	3 40	43 0	3 40	43 0	23 40	42 54	23 40	42 54	3
3	In dextro Brachio	γ	1 40	40 10	1 40	40 10	20 46	39 27	20 46	39 27	3
4	In dextri Brachii Ancone	κ	28 0	37 10	28 0	37 10	17 49	37 0	17 49	37 0	4
5	In sinistro Humero	λ	16 40	48 0	16 40	48 0	7 6	47 45	7 6	47 45	3
6	In sinistro Brachio	μ	22 0	49 30	22 0	49 30	12 37	49 15	12 37	49 15	4
7	In sinistro Brachii Ancone	ν	27 40	52 0	27 40	52 0	18 13	51 48	18 13	51 48	4
8	In sinistro Carpo trium sequens	ξ	5 30	52 50	5 30	52 50	24 46	52 21	24 46	52 21	4
9	Borea	ζ	1 40	54 0	1 40	54 0	22 25	53 39	22 25	53 39	4
10	Australior	η	3 0	53 0	3 0	53 0	21 55	52 39	21 55	52 39	4
11	In dextro Latere	θ	6 50	53 0	6 50	53 0	24 10	53 9	24 10	53 9	4
12	In sinistro Latere	ι	10 10	53 30	10 10	53 30	7 0	53 30	7 0	53 30	5
13	Hic borealior in summo Clune Femore sinistro	δ	1 0	56 30	1 0	56 30	1 7	55 45	1 7	55 45	5
14	In Educatione ejusdem Femoris	ε	11 10	58 30	11 10	58 30	2 4	58 36	2 4	58 36	3
15	Trium in sinistro Femore præcedens	π	14 0	59 50	14 0	59 50	4 46	59 51	4 46	59 51	4
16	sequens	ρ	15 20	3 0	15 20	3 0	6 10	0 15	6 10	0 15	4
17	tertia hanc sequens	σ	16 20	61 15	16 20	61 15	7 52	0 12	7 52	0 12	4
18	In Genu sinistro	τ	0 0	61 0	0 0	61 0	20 40	0 51	20 40	0 51	4

In Constellatione HERCULIS.

Ordo	STELLARUM Denominatio.	Byz. Cha.	Prole.	Prole.	Ul. Beig.	Ul. Beig.	Magnitud.
			Longit.	Latit.	Longit.	Latit.	
19	Quæ In Anteriore parte sinistra Tibiæ	μ	22 10 69	20 B	12 55 69	15 B	4
20	In Pede sinistro trium præcedens	κ	15 20 70	15	4 13 70	12	6
21	media	γ	16 50 71	15	5 49 71	18	6
	sequens	ζ	19 40 72	15	9 10 72	0	6
22	In Eductione dextri Femoris	η	0 40 60	15	μ 20 55 60	36	4
23	In Femore & hac Boreali	σ	25 20 63	0	15 31 63	9	4
24	In dextro Genu	τ	15 40 65	30	6 46 65	48	4
25	Duarum sub dextro Genu Australior	φ	13 20 63	40	4 37 63	48	4
26	Boreali	υ	10 10 64	15	1 25 64	30	4
27	In dextro Crure	χ	11 10 62	0	0 52 60	15	4
28	In Extremitate Pedis dextri		5 0 57	30			4
29	<i>Informis</i>						
1	Australior illa in dextro Brachio	μ	2 40 35	30	24 13 35	15	5

In Constellatione LYRÆ.

1	Quæ in Testa fulgida dicitur Lyræ	α	17 20 62	0 B	W 8 19 62	0 B	1
2	Duarum huic adjacentium Boreæ	β	20 20 62	40	10 55 62	30	4
3	Austrina	γ	20 20 61	0	11 10 60	45	4
4	Media inter Eductionem Cornuum	δ	28 40 60	0	14 55 59	48	4
5	Duarum sequen. ad Ortum, a Testa contig. Boreæ	θ	2 0 61	20	23 10 60	48	4
6	Austrina	ω	1 40 60	20	23 31 59	30	4
7	Duarum in Jugumento præcedentium Boreali	ε	21 0 56	10	12 25 56	21	3
8	Australior	ι	20 30 55	0	11 55 55	15	4
9	Duarum in Jugumento sequentium Boreæ	κ	24 10 55	20	15 75 54	24	3
10	Austrina	λ	21 0 54	45	15 13 54	36	

In Constellatione CYGNI.

1	Quæ in Ore	β	W 4 30 49	0 B	W 24 25 49	12 B	5
2	In Capite hanc sequitur	φ	9 0 50	30	28 1 50	39	3
3	In medio Colli	η	16 20 54	30	5 16 54	30	4
4	In Pectore	γ	28 30 57	30	18 28 57	51	3
5	In Cauda Splendida	α	9 10 60	0	28 46 59	42	2
6	In Ancone Alæ dextre	δ	W 19 20 64	40	9 7 64	30	3
7	Trium in dextra Alæ Austrina	θ	22 30 59	40	12 25 59	42	4
8	Media	ι	21 10 71	30	11 55 71	6	4
9	Boreæ	κ	16 40 74	0	8 40 74	0	4
10	In Ancone sinistra Alæ	ε	0 50 49	30	20 44 49	18	3
11	Hac Boreali in medio ejusdem Alæ	λ	3 50 52	10	22 16 52	0	4
12	In Extremitate Alæ sinistra	ζ	6 40 44	0	25 43 43	0	3
13	In sinistro Pede	ι	10 0 55	10	28 31 55	0	4
14	In Genu sinistro	ξ	14 30 57	0	3 34 56	42	4
15	Duarum in dextro Pede, præcedens	1 ad	0 1 10	64	21 28 63	27	4
16	sequens	2 ad	0 2 40	64	22 7 64	24	4
17	In Genu dextro	ω	12 10 63	45	3 1 10	64	3
	<i>Informis</i>						
1	Duarum sub sinistra Alæ Australior	τ	10 40 49	40	0 43 50	12	4
2	Boreali	σ	13 50 51	40	2 4 51	27	4

In Constellation, CASSIOPEÆ.

Ordo	STELLARUM Denominatio.	Right Ascension.	Prole.		UL. Beig.		UL. Beig.		Magnitude.	
			Longit.	Latit.	Longit.	Latit.				
							S. O. N.	S. O. N.		
1	Que in Capite	α	7	56	45	20	8	28	43	4
2	In Pectore	β	10	50	46	45	8	0	25	46
3	Hac Borealis in Cingulo	γ	13	0	47	50	3	10	46	30
4	In Coxis	δ	16	40	49	0	6	25	48	30
5	In Genibus	ε	20	40	45	30	10	19	45	45
6	In Crure	ζ	27	0	47	45	17	25	46	51
7	In Extremitate Pedis	η	31	40	47	20	20	46	47	36
8	In sinistro Brachio infra Antonom	θ	14	46	44	20	3	37	44	30
9	In sinistro Brachio	μ	17	20	45	0	7	45	44	48
10	In dextro Cubito	ν	3	20	50	0	12	2	49	30
11	Supra Scabellum Throni	ξ	15	0	52	40	8	5	25	51
12	In medio Sedis	π	7	50	51	40	28	1	50	43
13	In Summitate ejusdem	ρ	3	40	51	40	23	40	51	0

In Constellatione PERSEL.

1	Que in Manu dextra	Σ	126	40	40	30	B	16	1940	0	B	16	
2	In dextro Brachio	π	8	1	10	37	45		21	2537	9	4	
3	In dextro Humero	γ	2	40	34	30			22	2134	6	3	
4	In sinistro Humero	θ	127	37	32	30			17	431	30	4	
5	In Capite	τ	8	0	45	34	30		20	3734	0	4	
6	OSTE TV PARTI Capitis ^{Infatus} _{ad cervicem}	ι	8	5	31	10			21	4030	33	4	
7	in dextro Latere Lucida	α	4	50	30	0			25	729	21	2	
8	Trium post hanc in Latere procedens	σ	5	20	27	50			25	1927	27	4	
9	media	ω	7	0	27	40			26	4327	15	4	
10	cons	δ	7	40	27	20			27	5526	57	3	
11	In sinistri Brachii Ancone	κ	0	30	27	0			20	4326	0	4	
12	In Canite Gorgonis Lucida	η	29	40	23	0			18	5522	0	2	
13	Hanc sequitur	ιρ	29	10	21	0			18	4020	45	4	
14	Præcedit Lucidam	ρ	27	40	21	0			17	3720	21	4	
15	Reliqua dextrum præcedens	π	26	50	22	15			16	4221	9	4	
16	In dextro Genu	κ	14	50	28	0			11	4	4628	51	4
17	Ad Genu dextrum præcedens	λ	13	0	28	10			2	1628	36	4	
18	Duum super Poplitum præcedens	ι	12	2	25	0			2	1025	26	4	
19	In eodem Poplite sequens	ι	14	0	26	15			3	3426	19	4	
20	In dextra Sura	κ	14	10	24	30			4	1024	45	5	
21	In dextri Pedis Talo (vel Malloco)	ι	16	20	18	45			6	728	54	5	
22	In femore sinistro	ι	6	50	21	50			8	2628	48	4	
23	In sinistro Genu	ι	8	40	19	15			28	3118	54	3	
24	In sinistro Crure	ι	8	20	14	45			27	3714	33	4	
25	In sinistro Calcaneo	ι	4	1	12	0			24	2411	30	3	
26	Hanc sequitur in Extremo Pede sinistro	ι	6	20	11	0			26	2510	45	3	
	<i>Infirma</i>												
1	Ad Occum ab illa in sinistro Genu		11	5	18	0			11	1	4518	54	5
2	Ad Borem ab illa in dextro Genu		15	0	31	0			4	4331	0	5	
3	Illis in Gorgonio præcedit		124	20	20	40			8	14	2820	24	4

In Constellatione AURIGÆ.

1	Quæ	Duorum in Capite Austriaci	♂	II	2	30	30	0	B	II	2	22	30	0	B	4
2		Illarum Borealiore supra Caput	♀		2	24	31	5			21	55	31	0		4
3		In Humero sinistro <i>dist. a Capite</i>	♂	8	25		22	3			14	43	2	42		1
4		In dextro Humero	♀	II	2	50	20				23	52	11	0		3
5		In dextri Brachii Ancone	♂			1	10	15			2	28	14	48		4

In Constellatione AURIGÆ.

Ordo	STELLARUM Denominatio.	Right Asc.	Prole. Longit.			Prole. Latit.			Ul. Belg. Longit.			Ul. Belg. Latit.			Magnitudo
			S	O	P	O	P	P	S	O	P	S	O	P	
6	Quæ in dextro Carpo	B	11	5	50	13	20	B	11	22	43	13	33	15	4
7	In sinistro Brachii Ancone	B	22	0	20	40			11	1	20	40			4
8	In sinistro Carpo duarum sequens	B	22	10	18	0			11	34	18	9			4
9	In sinistro Carpo duarum præcedens	B	22	0	18	0			11	55	18	9			4
10	In sinistro Pedis Militeo	B	19	50	10	10			9	10	10	12			6
11	In dextri Pedis Mill. comm. cum Corno Tauri Boreæ	B	25	40	5	0			15	11	5	15			6
12	Supra hanc ad Septent. in Volacro Pedis Stramineo	B	26	0	8	30			16	40	8	30			5
13	Hæc adhuc Boreæ hor in fummo Femore Clune	B	26	20	12	10			16	25	10	54			5
14	Supra sinistram Pedem parvula	B	20	40	10	20									5

In Constellatione OPHIUCHI.

1	Quæ in Capite	B	24	50	36	0	1		15	13	45	51	15		3
2	Duarum in dextro Humero præcedens	B	28	17	15				17	10	28	9			4
3	Duarum in dextro Humero sequens	B	29	0	16	30			18	40	25	30			4
4	Duarum in sinistro Humero præcedens	B	13	20	33	0			2	25	32	33			4
5	Duarum in sinistro Humero sequens	B	14	40	31	50			3	40	32	0			4
6	In Ancone sinistri Brachii	B	8	40	3	50			11	13	13	48			4
7	Duarum in sinistra Mano præcedens	B	5	0	17	0			24	25	17	15			3
8	Duarum in sinistra Mano sequens	B	6	0	16	30			25	40	16	24			3
9	In Ancone dextri Brachii	B	26	40	15	0			16	16	14	45			4
10	Duarum in dextro Mano præcedens	B	2	20	13	40			22	15	13	15			4
11	Duarum in dextro Mano sequens	B	3	20	14	0			23	2	14	36			4
12	In dextro Genu	B	10	10	7	30			10	37	6	45			3
13	In Crure dextro	B	26	20	2	15			13	4	1	48			4
14	De quatuor in dextro Pede præcedens	B	23	0	2	15	A		12	40	3	9	A		4
15	Hæc sequitur	B	24	20	1	30			13	40	2	9			4
16	Hæc adhuc sequitur	B	5	0	0	20			14	19	0	18			4
17	Reliquæ tres quatuor sequens	B	25	5	0	45			14	5	0	12			5
18	Hæc sequitur tangens Calcaneum	B	27	10	1	0	A		16	19	1	30			5
19	In sinistro Genu	B	12	10	14	50	B		2	10	11	45			3
20	Trium in rectâ in sinistra Tibia Boreæ	B	11	40	5	20			1	4	5	30			5
21	Media	B	10	4	3	10			0	17	3	18			5
22	Astrina	B	9	50	1	20			11	29	46	1	45		5
23	Cavum tangit sinistri Pedis	B	12	20	3	40			1	2	16	0	39		5
24	Phorum tangit sinistri Pedis	B	10	40	0	45	A		1	7	0	45	A		4
Inferiores															
1	Trium ad Ortum a dextro Humero, Boreæ	B	2	40	28	10	P		22	40	28	9	B		4
2	Media	B	2	40	26	20			22	37	26	15			4
3	Astrina	B	3	10	25	0			23	4	24	45			4
4	Tres hæc sequitur quasi supra Medium	B	3	40	7	0			24	13	26	0			4
5	Solitaria tres Boreæ infima	B	4	40	33	0			25	1	22	21			4

In Constellatione SERPENTIS.

1	Quæ in Quadrilatero Capitis in Geni Extrema	B	18	5	33	0	B		9		37	45	15		4
2	Nares tangit	B	21	4	10	0			11	43	39	42			4
3	In Temporibus	B	24	0	25	0			13	34	35	12			3
4	In Eductione Colli	B	22	0	55	0			12	13	34	15			3
5	In medio Quadrilateri & in Ore	B	21	20	37	15			11	25	37	0			4
6	Extra a Capite ad Septentrionem	B	23	10	42	30			13	7	42	0			4
7	In primo flexu Colli	B	21	40	22	15			11	25	38	45			3
8	Trium hanc sequentium Boreæ	B	24	50	26	30			14	28	26	39			4
9	Media	B	24	20	25	20			14	25	25	48			3

In Constellatione SERPENTIS.

Ordo	STELLARUM Denominatio.	Bayer's Char.	Ptole.		Ul. Beig.		Magnitudo	
			Longit.	Latit.	Longit.	Latit.		
			S O P	O P	S O P	O P		
10	Quæ trium hæc sequentium Austrina	6	226	20 24	0 B	116 40 24	27 B	3
11	Post flexum sequent. sinist. Manum Ophiuchi præced.	12	22	50 16	30	18 25 16	15	4
12	Duas in Manu Ophiuchi. sequitur	15	8	10 16	15	28 40 13	12	5
13	Post dextrum Femur Ophiuchi	17	23	40 10	30	2 25 10	21	4
14	Duarum hanc sequentium Australior	18	27	0 8	10	16 40 8	6	4
15	Borealiior	19	27	50 10	50	17 4 10	36	4
16	Post dextram Manum in flexu Caudæ	20	3	40 20	0	23 22 19	21	4
17	Hanc sequitur etiam in Cauda	21	8	40 21	10	28 34 20	18	4
18	In Extremitate Caudæ	22	18	20 27	0	28 8 72	54	4

In Constellatione SAGITTÆ.

1	Quæ in Cuspide Solitaria	W	10 10 39	20 E	W	29 45 39	15 B	4
2	Trium in Arandine sequens	6	40 39	10	27	34 39	9	6
3	media	5	50 39	50	26	25 38	45	5
4	præcedens	4	40 39	0	28	40 38	30	5
5	Io Extremitate Glyphidis	3	20 38	20	24	1 38	12	5

In Constellatione AQUILÆ.

1	Quæ In medio Capite	W	7 10 26	50 B	W	27 31 26	54 B	4
2	Hanc præcedit in Collo	4	50 27	10	25	25 26	45	3
3	Lucida inter Humeros	3	50 29	10	24	10 29	15	2
4	Hanc propioqua Septentrionem versus	4	40 31	0	24	52 28	33	3
5	Duarum in sinistro Humero præcedens	3	10 31	30	23	13 31	0	3
6	Hanc sequitur	6	0 31	30	26	25 31	9	5
7	Duarum in dextro Humero præcedens	W	29 40 28	40	19	42 30	5	5
8	Ipsam sequitur	W	1 10 26	20	19	55 26	30	5
9	Sub Cauda Aquilæ, tangit Galaxiam	22	10 36	30	12	31 36	15	6
1	Informes circa Aquilam super quas Antinous est	W	3 40 21	40	23	1 21	12	3
2	Duarum ad Austrum a Capite Aquilæ præcedens	8	50 19	10	27	31 18	27	3
3	sequens	26	0 25	0	16	16 24	27	4
4	A dextro Humero Africum versus	28	10 20	0	17	49 19	51	3
5	Ab hac Austrum versus	29	40 15	30	19	1 13	39	5
6	Hac adhuc Australior	21	10 18	10	10	19 16	30	3
6	Omnes præcedit	21	10 18	10	10	19 16	30	3

In Constellatione DELPHINI.

1	Quæ Trium in Cauda præcedens	W	17 40 29	10 B	6	22 29	12 B	2
2	Reliquarum duarum Borealiior	18	40 29	0	8	7 23	45	4
3	Australior	18	40 27	45	7	49 27	36	4
4	Austrina præcedentis Lateris quadrilateri	18	30 32	0	8	16 31	45	3
5	Boreæ	20	0 33	20	9	49 32	51	3
6	Austrina sequentis Lateris □	21	20 32	0	10	55 31	51	3
7	Boreæ	23	10 33	10	11	52 32	54	3
8	Trium inter Caudam & Rhombum Austrina	17	30 30	15	7	10 31	21	6
9	Reliquarum duarum Borealiiorum præcedens	17	20 31	50	7	19 32	19	6
10	sequens	19	0 31	30	8	31 30	30	6

In Constellatione TRIANGULI.

Ordo	STELLARUM Denominatio.	Procl. Longit.	Procl. Latit.	Ul. Beig. Longit.	Ul. Beig. Latit.	Magnitud.
1	Que in Apice Trianguli	11	16 30	29	16 6	3
2	Trium in Bafe precedens	16	20 40	5	10 15	3
3	media	16 20	19 40	6	19 12	4
4	fequens	16 50	10 0	6 37	18 12	2

In Constellatione ARIETIS.

1	Que in Cornu dextrum precedens	10 40	7 20	10 15	0 20	3
2	fequens	7 40	8 20	27 7	7 51	3
3	Duarum in Rostro Boreali	11 0	7 40	0 20	7 9	5
4	Australior	11 30	6 0	0 50	5 36	5
5	In Cervice	6 30	5 30	26 1	5 6	5
6	In Renibus	17 40	6 0	6 55	5 45	6
7	In Educatione Caudæ	21 20	4 50	10 31	3 12	5
8	Trium in Cauda precedens	23 50	1 40	13 55	1 39	4
9	media	25 20	2 30	14 55	2 30	4
10	fequens	27 0	1 50	16 31	1 39	4
11	In Femore Posteriore	19 40	1 30	8 34	1 12	5
12	Sub Poulce	18 0	1 30	7 40	1 24	5
13	In Extremitate Pedis posterioris	15 0	5 15	4 55	5 0	4
14	Informis					
15	Supra Caput, Hipparcho, in rostro Colli	10 40	10 0	0 43	9 30	3
16	Lucidior & fequens tri 4 supra Dorsum	21 40	10 20	11 10	0 0	4
17	Supra Dorsum quatuor Informium, præced. Boreæ	21 20	12 40	11 22	0 5	5
18	Media	19 40	10 40	9 47	10 54	5
19	Australior	19 10	10 40	8 55	10 26	5

In Constellatione TAURI.

1	Que Boreæ de quatuor in Sectione	26 20	6 0	16 10	6 24	4
2	Hanc fequitur	26 0	7 15	15 49	7 42	4
3	Hanc adhuc fequitur	24 20	8 30	14 34	8 54	4
4	De quatuor in Sectione Australissima	21 20	9 15	13 52	9 39	4
5	Hanc fequitur in dextri Humeri Scapula	29 40	9 30	19 55	9 0	5
6	In Pedore	3 20	8 0	23 43	8 21	3
7	In dextro Genu	6 40	12 40	26 25	12 42	4
8	In Suffragine dextra	3 0	14 50	23 22	14 45	4
9	In finiftro Genu	12 10	0 0	1 40	9 42	4
10	In finiftro Cubito	13 0	13 0	1 13	12 15	4
11	De quinq; in Facie didis Suenæ in Naribus	9 0	5 45	28 55	6 9	3
12	Inter hanc & Oculum Boreum	10 20	4 15	29 43	4 9	3
13	Inter 11 ^a & Austrinum Oculum	10 50	5 50	1 4	6 15	3
14	Splendida in Austrino Oculo	12 40	5 10	2 31	5 15	3
15	In Boreo Oculo	11 50	3 0	1 10	2 54	3
16	In Educatione Cornu Australior, & in Aure	17 10	4 0	6 25	4 27	4
17	Duarum in Cornu Australior	20 20	5 0	9 16	4 30	5
18	Boreali	20 0	3 30	9 25	3 0	5
19	In Extremitate Cornu Australior	27 40	2 30	17 1	2 42	3
20	In Educatione Cornu Borei	15 40	0 15	4 34	0 30	4
21	In Extrem. Cornu Borei, cummun. cum Ped. Anigræ			0 49	1 0	2
22	Duarum propinquarum in Aure dextra, Boreali	12 0	0 30	0 25	0 9	5
23	Australior	11 40	0 15	26 4	0 39	5
24	Duarum parvularum in Collu præcedens	7 0	0 40	29 4	1 0	5

In Constellatione TAURI.

Ordo	STELLARUM Denominatio.	Repet. An.	Ptole. Longit.			Ptole. Latit.			Ul. Beig. Longit.			Ul. Beig. Latit.			Magnitud.
			h	m	s	g	o	'	h	m	s	g	o	'	
25	Quæ duarum parvularum in Collo sequens	2 ad	α	9	0	1	0	B	27	42	4	48	B	6	
26	In Cervice Australis præcedentis Lateris quadrilateri	p	β	8	0	5	0	B	27	19	6	18		5	
27	Borea ejusdem Lateris	γ	8	30	7	20		II	0	43	3	33		5	
28	Australis sequentis Lateris	δ	12	0	3	0			0	25	5	36		5	
29	Borea sequentis Lateris	ε	11	40	5	0		δ	22	1	3	45		5	
30	Pleisidum Boreus terminus præcedentis Lateris	ζ	2	10	4	30			22	16	3	30		5	
31	Australis terminus præcedentis Lateris	η	3	20	3	40			22	49	3	45		5	
32	Sequens & angustii terminus	θ	3	40	4	0			22	50	4	9		5	
33	Pleisidum parvula extra jacet ad Septentrionem	ι	3	40	5	0								4	
<i>Informes</i>															
1	Sub Pede & Scapula dextra		γ	25	0	17	30	A	14	43	19	30	A	4	
2	Trium supra Australe Cornu præcedens		δ	20	0	2	0		II	9	10	1	15		5
3	media		ε	24	0	1	45			12	43	1	9		5
4	sequens		ζ	26	0	2	0			14	46	1	30		5
5	Duarum infra Cornu Austrinum Borea		η	29	0	6	20			17	34	6	54		5
6	De quinq; infra Cornu Bor. { Australis		θ	29	0	7	20			18	49	8	0		5
7	{ præcedens		ι	27	0	0	40	B		16	16	1	15	B	5
8	Hanc sequitur		κ	29	0	1	0			17	43	2	30		5
9	Adhuc in Consequencia hujus		II	1	0	1	20			19	37	1	48		5
10	Reliquarum duarum sequentium Borealiior			2	20	3	20			20	13	3	42		5
11	Australior			3	20	1	15			21	20	2	20		5

In Constellatione GEMINORUM

1	Quæ in Capite præcedentis Gemini	α	II	23	29	9	30	B	12	43	9	54	B	2	
2	In Capite sequentis Gemini	β	26	42	6	15			15	55	6	30		2	
3	In sinistro Cubito præcedentis Gemini	γ	16	40	0	30			3	25	10	45		4	
4	In sinistro Brachio	δ	18	40	7	20			7	55	7	30		4	
5	Hanc sequitur super Costis inter Scapulas	ε	22	0	3	30			11	28	5	30		4	
6	Hanc etiam sequitur in Humero ejusdem Gemini	ζ	24	0	4	50			13	49	4	54		4	
7	In sequente Humero, sequentis Gemini	η	26	40	2	40			16	1	2	45		4	
8	In dextro Latere antecedentis Gemini	θ	21	40	2	40			11	1	2	45		5	
9	In sinistro Latere sequentis Gemini	ι	23	10	0	50			11	55	5	45		5	
10	In sinistro Genu præcedentis Gemini	κ	13	0	1	30			2	13	1	51		3	
11	In sinistro Genu sequentis Gemini	λ	18	15	2	30	A		10	42	0	21	A	3	
12	In Inguine sinistro sequentis Gemini	μ	21	40	0	30			6	58	2	48		3	
13	Supra Popitem dextrum ejusdem Gemini	ν	21	20	6	0			10	58	6	0		3	
14	In Extremo anteriore Pede præcedentis Gemini	ξ	6	30	1	30			II	55	1	30		4	
15	Hanc in eodem Pede sequitur	ο	8	10	1	15			27	31	1	15		4	
16	In Extremo dextro Pede præcedentis Gemini	π	10	10	3	30			29	25	3	24		4	
17	In Extremo sinistro Pede sequentis Gemini	ρ	12	0	7	30		Σ	1	31	7	12		4	
18	In Extremo dextro Pede sequentis Gemini	σ	14	40	10	30			3	31	10	12		4	
<i>Informes</i>															
1	Præcedit Pedem anteriorem antecedentis Gemini	H	4	10	0	40	A		II	23	13	0	45	A	4
2	Splendida præced. Genu antecedent. Gemini		6	30	5	50	B		25	55	6	0	B	4	
3	Præcedit Genu sinistrum sequentis Gemini		15	10	2	15	A	Σ	4	4	2	0	A	5	
4	Borea trium sequent. dextrum Brachium seq. Gemini	I	28	20	1	20			19	1	1	20		5	
5	Media in recta linea	E	26	20	3	20			17	13	3	0		5	
6	Australis & ad Cubitum Brachii	F	26	0	4	30			15	46	4	15		5	
7	Splendida sequens tres præfatas	Σ	0	40	2	40			21	10	2	45		4	

In Constellatione CANCRI.

Ordo	STELLARUM Denominatio.	Borealis	Ptol.		Ul. Beig.		Magnitudo
			Longit.	Latit.	Longit.	Latit.	
1	Quæ Media Nebulæ Pectoris dicitur præcipue	κ	10 20	0 40 B	29 46	1 0 B	Neb
2	Boreæ præcedentium in ☐ circa Nubem	η	7 40	1 15	27 25	1 21	4
3	Australis	θ	8 0	1 10 A	27 40	1 15 A	4
4	Duarum sequentium in ☐ Boreæ, Affellus Boreus	γ	10 20	2 40 B	29 34	3 6 B	4
5	Australis	δ	11 20	0 10 A	0 43	0 15 A	4
6	In Australi Forfice	α	16 30	5 30	0 40	5 21	4
7	In Boreali Forfice	ι	8 20	11 50 B	28 7	10 15 B	4
8	In posteriore Boreæ Crure	μ	2 40	1 0	23 37	0 54	5
9	In posteriore Australi Crure	β	7 10	7 30 A	26 43	10 30 A	4
Informes							
1	Super flexum Australis Forficis	π	19 10	2 20	4 10	2 15 A	4
2	Sequitur Extremitatem Australis Forficis	κ	21 10	5 40	7 55	5 48	4
3	Duarum sequentium supra Nubem præcedens	ι	14 0	7 15 B	4 55	5 0 B	5
4	Sequens	ε	17 0	4 50	2 49	7 0	5

In Constellatione LEONIS.

1	Quæ Est in Nare	κ	18 20	12 0 B	8 10	10 9 B	4
2	In hiatu Oris	λ	21 10	7 30	10 10	8 0	4
3	In Capite duarum Australium	ε	24 10	9 30	13 25	12 21	3
4	Boreæ	μ	24 20	12 0	13 7	9 45	3
5	Trium in Collo Boreæ	ζ	0 10	11 30	20 25	11 33	3
6	Media & sequens	γ	2 10	8 30	21 58	9 0	2
7	Australis	π	0 40	4 30	20 19	4 48	3
8	In Gorge, dicta Regulus	α	2 30	0 10	22 13	0 9	1
9	Hæ Australior & quasi in Pectore	δ	3 30	1 50 A	22 22	1 27 A	4
10	In antecedenti Cordis	ι	0 0	4 0	19 55	0 12	5
11	In dextero Genu	ε	27 20	0 0	16 55	0 6	5
12	In vola Pedis dextri Anterioris	δ	24 10	3 40	14 22	3 9	6
13	In vola Pedis sinistri Anterioris	ε	27 20	4 10	16 22	3 57	4
14	In sinistro Genu	π	0 30	4 15	21 40	4 0	4
15	In sinistra Axilla	ρ	9 10	0 10	28 37	0 9	4
16	Trium in Ventre præcedens	ι	7 0	4 0 B	26 25	4 15 B	6
17	Reliquarum duarum sequentium Boreæ	κ	10 20	5 20	0 1	5 36	6
18	Australis	ι	12 10	2 20	2 19	2 6	6
19	Duarum in Lumbis præcedens	δ	11 20	12 15	1 19	13 6	6
20	Sequens	β	14 10	13 40	3 28	14 9	2
21	Duarum in Coxis Boreæ	β	14 20	11 30	2 4	16 45	5
22	Australis	η	16 20	9 40	5 40	9 24	3
23	In Posterioribus Femoribus	ι	20 20	5 50	9 58	6 9	3
24	In Posterioribus Poplitibus	α	21 40	1 15	11 16	1 15	4
25	Hæ Australior quasi in Cubitis	τ	21 40	0 50 A	11 31	5 0 A	4
26	In Volis Pedum Posteriorum	υ	27 30	3 12	17 4	3 15	5
27	In Extremitate Caudæ	δ	24 30	11 50 B	13 49	2 0 B	1
Informes							
1	Duarum supra Dorsum præcedens		6 0	13 20	25 40	14 0	5
2	Sequens		8 10	15 30	27 55	16 30	5
3	Trium sub Ventre Boreæ	χ	17 30	1 10	6 43	1 15	3
4	Media	ε	17 10	0 30 A	6 19	0 30 A	5
5	Australis	δ	18 0	2 40	7 16	3 0	5
6	Boreæ Congerui Nebulæ		24 50	30 0 B	16 4	28 12	lobf.
7	In Australibus Comæ prominentiis, præcedens	β	24 20	25 0	16 25	23 30	lobf.
8	Sequens in Figura Folii Hadræ		28 20	25 30	20 28	24 0	lobf.

In Constellatione VIRGINIS.

Ordo	STELLARUM Denominatio.	Bayer Class.	Ptole. Longit.			Ptole. Latit.			Ul. Beig. Longit.			Ul. Beig. Latit.			Magnitud.
			50	0	1	50	0	1	50	0	1	50	0	1	
1	Quæ Duarum in summo Cranso Austrina —	α	25	20	4	15	15	15	16	31	4	39	15	5	
2	Borea —	β	27	0	5	40	16	25	16	25	6	15	5	5	
3	Duarum in Vultu Borea —	γ	0	40	8	0	20	31	20	31	8	24	5	5	
4	Austrina —	δ	0	10	5	30	20	19	20	19	6	9	5	5	
5	In summa Ala Austrina & sinistra —	ε	29	0	6	0	18	31	0	10	3	10	3	5	
6	De quatuor in sinistra Ala præcedens —	ζ	8	15	1	10	27	7	1	30	3	3	5	5	
7	sequens —	η	13	10	2	50	22	13	2	54	3	3	5	5	
8	tertia —	θ	17	10	2	50	6	22	3	0	5	5	5	5	
9	quarta —	ι	21	0	1	40	10	25	1	36	4	3	5	5	
10	In dextro Latere sub Cingulo —	κ	14	20	8	30	4	1	8	45	3	3	5	5	
11	Trium in dextera & Borea Ala præcedens —	λ	8	10	13	50	27	46	13	30	5	5	5	5	
12	Austrina —	μ	10	0	11	40	20	11	18	6	3	5	5	5	
13	Trium Borea in dextera Ala <i>Vindemiatrix</i> —	ν	12	10	15	10	1	49	16	15	5	5	5	5	
14	In Manu sinistra <i>diſſa Spica</i> —	ξ	26	40	2	0	16	10	2	9	1	5	5	5	
15	Sub Ventris Veln in dextro Femore —	ζ	24	50	8	40	14	55	8	45	3	5	5	5	
16	Borea præcedentis Lateris <i>U</i> in sinistro Femore —	η	26	20	3	20	16	16	3	12	5	5	5	5	
17	Austrina præcedentis Lateris quadrilateri —	θ	27	15	0	10	17	15	0	24	6	5	5	5	
18	Duarum in Latere sequente quadrilateri Borea —	ι	0	0	1	30	18	55	1	9	4	5	5	5	
19	Austrina —	κ	28	0	0	20	18	25	2	54	5	5	5	5	
20	In sinistro Genu —	λ	1	40	1	30	21	13	1	30	5	5	5	5	
21	In dextro Posteriore Femore —	μ	28	0	8	30	18	58	8	45	5	5	5	5	
22	Media trium in tractu Vestis circa Pedes —	ν	6	40	7	30	25	49	7	15	4	5	5	5	
23	Austrina —	ξ	7	20	2	40	26	52	3	0	4	5	5	5	
24	Borea —	ζ	8	20	11	40	27	40	11	45	4	5	5	5	
25	In Extremo sinistro Pede & Austrina —	η	10	0	0	30	29	7	0	42	4	5	5	5	
26	In Extremo dextro & Boreo Pede —	θ	12	40	9	50	22	37	9	51	3	5	5	5	
<i>Informes</i>															
1	Trium in recta sub sinistro Cubito præcedens —	α	14	40	3	30	4	10	3	42	5	5	5	5	
2	media —	β	19	0	3	30	8	10	3	24	5	5	5	5	
3	sequens —	γ	22	15	3	20	11	19	3	21	5	5	5	5	
4	Trium quasi in recta sub <i>Spica</i> præcedens —	δ	27	10	7	10	16	7	8	0	6	5	5	5	
5	media duplex —	ε	28	10	8	20	17	19	8	36	5	5	5	5	
6	sequens —	ζ	0	12	7	50	24	10	7	42	6	5	5	5	

In Constellatione LIBRÆ.

1	Quæ Duarum in summa Chela lucida est, <i>Austrina Lanx</i> —	α	18	0	0	40	17	52	0	45	2	5
2	Est hac Borealis & obscurior —	β	17	0	2	30	6	31	1	45	5	5
3	<i>Lanx Borea</i> —	γ	22	10	8	50	11	58	8	45	2	5
4	Hanc præcedit obscura —	δ	17	40	8	30	7	58	8	36	5	5
5	In medio Austrinæ Chelæ —	ε	24	0	1	40	13	16	1	46	4	4
6	Hanc præcedit in eadem Chela —	ζ	21	20	1	15	10	46	1	9	4	4
7	In medio Boreæ Chelæ —	η	27	50	4	45	17	49	4	45	4	4
8	Hanc sequitur in eadem Chela —	θ	3	0	3	30	22	4	2	57	4	4
<i>Informes</i>												
1	Antecedens trium Borealiorum ipsa Chela Borea —	α	26	10	9	0	15	55	8	42	5	5
2	Duarum hanc sequentium Austrina —	β	3	40	6	40	22	46	6	30	4	4
3	Borea —	γ	4	20	9	15	23	25	8	54	4	4
4	Trium inter Foreipes sequens —	δ	3	30	0	30	22	25	0	36	5	5
5	Reliquarum duarum præcedentium Borea —	ε	0	20	0	20	19	40	3	12	5	5
6	Austrina —	ζ	1	10	1	30	20	25	1	24	4	4
7	Anteced. trium Australior. ipsa Foreipe Australior —	η	23	0	7	30	13	19	7	30	3	3
8	Duarum Reliquarum sequentium Borealis —	θ	1	10	8	30	20	55	8	15	4	4
9	Australior —	ι	2	0	9	40	21	42	10	0	4	4

In Constellatione SCORPII.

Ordo	STELLARUM Denominatio.	Bayer Char.	Ptole. Longit.	Ptole. Latit.	Ul. Beig. Longit.	Ul. Beig. Latit.	Magnitudo.
			5 0 1	0 1	5 0 1	0 1	
1	Quæ Est trium in Fronte Lucidarum Boreæ	α	6 20	1 20 B	25 22	1 20 B	3
2	Media	β	5 40	1 40 A	24 58	2 3 A	3
3	Australis	γ	5 40	3 0	24 40	5 27	3
4	In altero Pedum	δ	6 0	7 50	24 55	8 51	3
5	Duarum adjacentium Boreæ Frontis Boreæ	ε	7 0	1 40 B	26 28	1 45 B	4
6	Austrina	ζ	6 20	0 30	25 10	0 30	4
7	Præcedens trium Lucidarum in Corpore	σ	10 40	3 45 A	1 0 28	3 45 A	3
8	Media trium lucidarum in Corpore dicta Antares	α	12 40	4 0	2 16	4 30	2
9	Sequens trium	τ	14 30	5 30	3 40	6 21	3
10	In ultimo Pede Austrino præcedens	ε	9 20	6 30	12 18	6 57	5
11	sequens	2 ad ε	10 40	6 40	29 25	7 12	5
12	In primo a Corpore Caudæ spondylo	ν	18 30	11 0	6 19	12 0	3
13	Post hanc in secundo spondylo	μ	18 50	15 0	7 55	15 15	3
14	In tertio spondylo duplices Boreæ	2	20 0	18 40	9 19	18 51	4
15	Austrina	ζ	20 10	18 0	9 25	19 15	4
16	Deinceps in Ordine in quarto spondylo	π	23 10	19 30	13 120	0	3
17	Post hanc in quinto spondylo	θ	28 10	18 50	17 55	19 21	3
18	Adhuc sequens in sexto spondylo	ρ	0 30	16 40	19 28	16 18	3
19	In septimo spondylo juxta Aculeum	κ	129	0 15 10	18 31	31 0	3
20	Duarum in Aculeo Caudæ sequens	λ	27 30	12 20	16 31	13 33	3
21	præcedens	υ	27 0	13 30	15 55	13 54	4
	<i>Informes</i>						
1	Sequitur Aculeum Nebulosæ	ι	1 10	13 15	19 55	13 39	Neb
2	Duarum ad Boream ab Aculeo quæ præit	25	30	6 10	15 7	6 45	5
3	quæ sequitur	29	30	4 10	19 31	4 15	5

In Constellatione SAGITTARII.

1	Quæ in Cuspide Sagittæ est	γ	4 30	6 20 A	23 49	7 12 A	3
2	In Manubrio sinistrae Manus	δ	7 20	6 10	26 58	6 45	3
3	In Australi parte Arcus	ε	8 0	10 50	27 13	11 12	3
4	In Boreali parte Arcus Australis	λ	9 0	1 30	28 25	2 0	3
5	In summo Arca Borealis	μ	6 40	2 50 B	25 52	2 18 B	4
6	In sinistro Humero	σ	15 20	3 10 A	4 31	3 45 A	3
7	Ad Marginem Sagittæ præcedens Humerum sinistrum	φ	13 0	3 30	2 19	3 54	4
8	In Oculo Nebulosæ duplicis sequens	ι	15 10	0 45 B	5 7	0 45 B	Neb
9	Trium in Capite præcedens	ε	15 40	2 10	5 43	2 0	4
10	media	ο	17 40	1 30	7 31	1 15	4
11	sequens	π	19 12	2 0	8 55	2 0	4
12	Trium in Boreæ parte Paludamenti Austrina	α	21 20	2 50	10 49	3 15	5
13	Media	ρ	22 20	4 30	11 25	4 6	4
14	Boreæ	υ	22 50	6 30	11 55	6 15	4
15	Tres hæc sequitur obscura	ε	25 20	5 30	15 13	5 24	6
16	Duarum in Australi parte Paludamenti Borealis	ζ	29 30	5 50	19 10	6 0	5
17	Australior	η	27 40	2 0	17 7	1 48	6
18	In dextro Humero	θ	22 20	1 50 A	12 16	1 54 A	5
19	In Ancone dextri Brachii	β	24 50	2 50	14 40	3 6	4
20	Trium super Costis ad Interseapillum	δ	20 0	2 30	9 1	2 18	5
21	Media juxta Scapulam	τ	17 40	4 30	6 31	5 0	4
22	Tertia sub Axilla	ζ	16 20	6 45	5 31	7 0	3
23	In Anteriore & sinistra Suffragine	ε	17 40	23 0	7 46	22 18	2
24	Ad Genu ejusdem Cruris	α	17 0	18 0	8 43	18 36	2
25	In Anteriore dextra Suffragine	η	6 40	13 0	25 55	13 48	3
26	In Femore sinistro	θ	27 20	12 30	16 59	13 21	3

In Constellatione SAGITTARII.

Ordo	STELLARUM Denominatio.	Rectasc. Longit.	Pole.		Ul. Beig. Longit.	Ul. Beig. Latit.		Magnitud.
			S	O		S	O	
27	Quæ In Posteriore dextro Cubito	23 50	20	10 A	W 14 25	20 39 A	6	
28	De quæ. in □ ad Educl. Caudæ Borei Lat. præced.	27 20	4	50	18 7	5 30	5	
29		28 50	4	50	18 55	5 30	5	
30	Australis Lateris præcedens	28 50	5	50	18 25	6 9	5	
31	fœquens	29 40	6	30	19 7	7 0	5	

In Constellation CAPRICORN

1	Quæ Trium in fequentæ Cornu Borea eft	W	7 20	7 20	W	26 31	6 42	U	3
2	Mediæ	α	7 40	6 40		26 49	6 47		3
3	Auftrina	π	7 20	5 0		26 10	4 25		3
4	In Extremitate Cornu antecedente	ε	9 0	8 0		24 55	7 30		6
5	Trium in Roftro Auftrina	π	9 0	0 45		27 31	0 42		3
6	præcedens	π	8 40	1 45		27 19	1 39		6
7	fequens	ρ	8 50	1 30		27 31	1 21		6
8	Tres hæc præcedit, fub dextro Oculo	σ	6 10	0 40		25 13	0 35		5
9	Duarum in Cervicæ Borealiæ	τ	11 40	3 50	W	0 22	3 27		6
10	Auftraliæ	υ	11 50	0 50		0 10	0 54		5
11	Sub dextro Genæ	ω	10 50	6 30	A	W 29 21	7 0	A	4
12	In finifiro flexa Genæ	ω	11 40	8 40	W	0 1	8 45		4
13	In finifiro Humero	Α	16 40	7 40		3 55	8 6		4
14	Duarum Contiguarum fub Ventre præcedens	Β	20 10	6 50		9 16	6 12		5
15	fequens	Β	20 20	6 0		9 34	6 12		5
16	Trium in medio Corpore fequens	Γ	18 40	4 15		6 55	4 36		5
17	Reliquarum duarum Auftrina	Δ	16 40	4 0		5 1	4 18		5
18	Borea	η	16 20	2 50		4 55	2 42		5
19	Duarum in Dorfo præcedens	θ	17 20	0 10		6 1	0 0		4
20	fequens	ι	21 0	0 50		9 55	0 48		4
21	Duarum in Auftrili Pinna, præcedens	κ	23 20	4 45		12 34	5 15		4
22	fequens	μ	25 0	4 30		14 7	5 0		4
23	Duarum in Eductione Caudæ præcedens	π	21 50	2 10		14 13	2 30		3
24	fequens	ρ	26 20	2 0		15 28	2 15		3
25	De quatuor in Borea parte Caudæ præcedens	σ	26 50	0 20	B	15 43	0 15	B	4
26	Auftrina	μ	28 40	0 0		18 10	0 0		5
27	Mediæ	λ	27 40	2 50		16 31	2 48		5
28	Borea	ν	28 40	4 20		17 34	4 0		5

In Constellatione AQUARIL.

1	Quæ in Capite		d	0	20	15	45	B	20	13	15	15	B	5
2	Duarum in dextro Humero lucidior		α	6	20	11	0		25	31	10	9		3
3	Infer dextrum Humerum		π	5	10	9	40		24	34	8	42		5
4	In sinistro Humero		θ	18	26	30	8	50	15	43	8	48		3
5	Sub Humero præcedente super Costis quasi in Axilla		ε	27	20	6	15		16	40	6	45		5
6	Trium dictarum sequens		z	17	40	5	30		6	7	7	6		3
7	media		μ	16	10	8	0		5	22	8	9		4
8	præcedens		ε	14	40	8	40		3	49	8	9		3
9	In Cubito dextro		γ	9	30	8	45		29	13	8	0		3
10	Trium in Mana dextra Borea		π	11	40	10	45		4	0	55	10	9	3
11	Trium dictarum præcedens		π	12	0	9	0		1	7	8	48		3
12	sequens		π	13	30	8	30		2	55	8	0		3
13	Duarum Contiguarum in dextra Cotyla, præcedens		θ	6	10	3	0		25	43	1	48		4
14	sequens		ρ	7	0	3	10		26	10	2	13		5
15	In dextri Femoris Vertebra		θ	8	40	0	50	A	28	1	15	15	A	4

In Constellatione AQUARII.

Ordo	STELLARUM Denominatio.	Directio	Ptole.			Ptole.			Ul. Beig.			Ul. Beig.			Magnitud.
			S	O	R	S	O	R	S	O	R	S	O	R	
16	Quæ in sinistro Femoris vertebra Austrina ———	i	1	40		1	40	A	21	37		1	54	A	4
17	Borea ———	r	3	10		0	15	B	23	10		0	15	B	6
18	Duarum in dextra Tibi Australior ———	d	11	40		7	30	A	1	55		8	18	A	3
19	Sub Poplite Borealis ———	t	11	20		5	0		1	37		5	45		4
20	In sinistro Posteriore Femore ———	f	4	40		5	40		24	43		6	9		5
21	Duarum in sinistra Tibia Australior ———	v	8	20		10	0		28	34		11	0		5
22	Borealis ———	g	7	50		9	0		27	49		10	6		5
23	In effusione Aquæ a Manu præcedens ———	k	15	0		2	0	B	4	31		0	18	E	4
24	Ad Austrum a præcedente, sequens ———	λ	14	50		0	10		2	4		1	10	A	4
25	In flexu hanc sequens ———	b	17	40		1	10	A	8	58		0	30		4
26	Hanc adhuc sequitur ———	φ	20	0		0	30		9	25		2	0		4
27	In Flexura ad Austrum ———	χ	20	30		1	40		8	55		3	24		4
28	Sequitur (φ) duarum Australiorum Borealis ———	j	19	0		3	30		9	34		4	0		4
29	Australior ———	j	19	50		4	10		9	19		5	0		4
30	Astrum versus distat Solitaria ———	s	20	50		8	15		7	34		8	48		5
31	Post hanc duarum propinquarum præcedens ———	u	22	20		11	0		11	58		11	30		5
32	sequens ———	u	23	10		10	50		12	7		11	0		5
33	Trium in sequenti Flexu Borea ———	A	21	40		14	0		10	55		14	30		5
34	Media ———	A	22	10		14	45		11	34		15	6		5
35	Sequens ———	A	23	10		15	40		12	25		15	42		5
36	Trium deinceps Ordine jacentium Borea ———	b	17	0		14	10		6	43		15	0		4
37	Media ———	b	17	30		15	0		7	16		15	54		4
38	Australis ———	b	18	20		15	45		8	7		16	45		4
39	Trium in ultimo flexu præcedens ———	c	11	50		16	25		1	13		16	17		4
40	Australior ———	c	12	40		15	45		2	4		15	51		4
41	Borealis ———	c	13	10		16	25		2	55		14	48		4
42	Aquæ ultima, Fomalhaut ———	o	7	0		23	0	A	26	19		21	24		1
1	Informes														
1	Trium sequentium Aquæ flexum, præcedens ———	g	26	40		15	30		16	40		16	33		4
2	Borea ———	g	29	40		14	40		19	10		15	45		4
3	Austrina ———	b	29	0		12	15		18	28		19	18		4

In Constellatione PISCIIUM.

1	Quæ in Ore Piscis præcedens ———	β	21	40		9	15	B	10	46		8	54	B	4
2	Duarum in Occipite Australior ———	γ	24	10		7	30		13	49		7	12		4
3	Borealis ———	b	26	0		9	30		15	25		8	42		4
4	Duarum in Dorso præcedens ———	θ	28	10		9	30		17	49		8	48		4
5	sequens ———	ι	0	40		7	30		19	49		7	0		4
6	In Ventre præcedens ———	κ	26	0		4	30		15	16		4	0		4
7	sequens ———	λ	29	40		3	30		19	22		3	0		4
8	In Cauda Piscis præcedens ———	ω	6	0		6	20		25	7		6	18		4
9	In Lino prima a Cauda ———	d	11	0		5	45		γ	0		50	24		6
10	sequens ———	ι	13	0		3	45		2	49		3	0		6
11	Trium deinde Lucidarum præcedens ———	δ	17	10		2	15		6	55		1	54		4
12	media ———	ε	20	10		1	10		10	31		1	12		4
13	sequens ———	ζ	23	0		0	10	A	12	55		6	0	A	4
14	Duarum sub his parvularum in flexu Borea ———	e	23	30		2	0		12	22		1	39		6
15	Austrina ———	f	23	20		5	0		12	55		4	54		6
16	Trium post flexum Lini præcedens ———	μ	26	30		2	20		15	55		2	30		4
17	media ———	ν	28	20		4	40		18	25		5	0		4
18	sequens ———	ξ	0	40		7	45		19	49		8	45		4
19	In Nodo duorum Linorum ———	π	2	30		8	30		21	55		9	30		3
20	In Lino Borea a connexu præcedens ———	σ	0	30		1	40		20	25		3	12		4

In Constellatione PISCII.

Ordo	STELLARUM Denominatio.	Hæc. Bore.	Procl.	Procl.	Ul. Bore.	Ul. Bore.	Magnitudo.
			Longit.	Latit.	Longit.	Latit.	
			S O /	O /	S O /	O /	
21	Quæ Trium deinde in Ordine jacentium Austrina	π	0 10	1 50 B	0 20	1 48 B	5
22	Media	η	0 40	5 20	19 45	5 0	3
23	Trium harum Boreæ, & in extrema Cauda Piscis Bor.	ρ	0 30	9 0	20 10	8 36	4
24	Duarum in Ore Piscis sequentis Borealior	σ	2 0	21 45	21 22	9 5	5
25	Austrina	τ	1 40	21 40	20 46	21 31	5
26	Trium parvularum in Capite sequens	β	28 40	20 0	17 34	20 45	6
27	media	κ	27 40	19 50	16 43	19 42	6
28	precedens	ι	27 0	20 20	15 40	20 30	6
29	Trium in Pinna Costar. post Cubit. Androm. præced.	↓	25 40	14 20	16 19	12 51	4
30	media	↓	26 40	13 15	16 28	11 54	4
31	sequens	↓	27 40	12 0	16 46	10 57	4
32	Duarum in Ventre Boreæ	υ	2 10	7 0	20 55	18 0	4
33	Austrina	φ	29 50	15 20	19 28	14 45	4
34	In sequente Pinna juxta Caudam	χ	0 0	11 45	17 10	12 0	4
	<i>Informes</i>						
1	Duarum Boreæ, in □ sub Hæc præcedens	Η	1 10	2 40 A	20 46	3 12 A	4
2	sequens		2 15	2 30	21 10	3 0	4
3	Duarum in Australi Latere quadrilateri præcedens		0 40	5 30	21 25	6 12	4
4	sequens		1 40	5 30	22 12	6 12	4

In Constellatione CETI.

1	Quæ in Narce	λ	17 40	7 45 A	δ	7 31	8 18 A	4
2	Duarum in Rostro sequens in Extremis Maxilla	α	17 40	12 20		6 55	12 51	3
3	Media in Ore		12 40	11 30		2 10	12 18	3
4	Præcedens in Genu	ι	10 30	14 0		0 22	14 42	3
5	Ad Supercilium Oculi		10 10	8 10		29 46	8 9	4
6	Hæc Borealior quasi in Capillamento	μ	12 40	6 20		3 7	6 30	4
7	Hinc præcedit. ubi in juba	ε	7 20	4 10		27 55	4 24	4
8	In □ Pectoris præcedentis Lateris Boreæ	θ	3 0	24 30		22 37	25 42	4
9	Austrina	σ	3 20	28 0		23 4	29 15	4
10	Sequentis Lateris Boreæ		6 0	25 10		26 25	26 15	4
11	Austrina	π	7 0	27 30		26 43	28 51	3
12	Trium in Corpore Media	τ	22 0	25 20		10 55	25 30	3
13	Austrina	υ	23 0	30 50		12 7	31 0	4
14	Boreæ	ρ	25 0	20 0		14 37	21 9	3
15	Duarum in parte Corporis, Caudæ vicina sequens	θ	19 40	15 40		8 55	16 15	3
16	præcedens	η	15 0	15 40		4 40	16 42	5
17	Boreæ sequentis Lateris □ in parte Piscis posteriore		11 0	13 40		0 19	15 6	5
18	Australis sequentis Lateris	ζ	10 40	15 40		28 46	17 12	5
19	Præcedentis Lateris □ dicti Boreæ		9 20	13 0		28 42	15 21	5
20	Austrina		9 0	14 0		28 13	16 6	5
21	In Extremis Caudæ Pinnis duarum Boreæ	ι	4 40	9 40		23 55	10 30	3
22	In Extremitate Australis Caudæ Pinnæ	β	5 40	20 20		25 25	21 0	3

In Constellatione ORIONIS.

1	Quæ In Capite Orionis Nebulosa	λ	δ 27	c 16 30 A	II	16 31	13 30 A	Neb
2	In dextro Humero lucida Rutilans	α	II 2	c 17 0		21 13	16 45	1
3	In sinistro Humero	γ	δ 24	c 17 30		13 34	17 15	2
4	Sub hac in Consequencia	Δ	25 20	18 0		14 40	17 39	4
5	In dextri Brachii Ancone	μ	4 20	14 30		22 40	14 0	4
6	In dextro Cubito	κ	6 20	11 30		26 16	11 15	6

In Constellatione ORIONIS.

Ordo	STELLARUM Denominatio.	Borealis.	Ptole.		Ptole.		Ul. Beig.		Ul. Beig.		Mogadina.
			Longit.	Latit.	Longit.	Latit.	Longit.	Latit.	Longit.	Latit.	
			50	0	50	0	50	0	50	0	
7	Quæ Aut. Lateris $\square$ in dextra Manu sequens —	II	6 1	10 0	A	25 37	9 15	A	4		
8	præcedens —		6 0	9 45		25 4	8 42		4		
9	Borei Lateris dicti quadrilateri sequens — 2 ad	f	7 20	8 15		26 4	7 15		4		
	præcedens — 1 ad	f	6 40	8 15		25 10	7 15		6		
11	Duarum in Fuste præcedens — 1 ad	λ	1 40	3 45		21 7	3 24		5		
12	sequens — 2 ad	λ	4 40	4 15		23 16	3 45		5		
13	De quatuor in Crate Pectoris sequens —	ω	8 27	50 19 40		16 55	19 24		4		
14	Hanc præit —	ω	26 20	20 0		16 16	19 42		6		
15	Hanc adhuc præcedit —	ω	25 20	20 20		14 13	20 9		6		
16	De quat. in Crate Pect. quat. in recta linea præcedens	↓	24 10	20 40		13 31	20 30		5		
17	Prima in Exuvii, Borealisima — 1 ad	α	20 30	8 0		9 40	7 45		4		
18	Secunda in Exuvii — 2 ad	α	19 20	8 10		8 46	7 54		4		
19	Tertia —	ε	18 0	10 50		8 13	10 6		4		
20	Quarta — 1 ad	π	16 20	12 50		5 40	12 42		4		
21	Quinta — 2 ad	π	15 10	14 15		4 43	14 18		4		
22	Sexta —		14 50	15 50		4 13	15 30		3		
23	Septima —		14 50	17 10		4 34	16 45		3		
24	Octava —		15 20	20 20		4 46	20 18		3		
25	Reliqua in Exuvii 9 ^a —		16 20	21 30		5 49	21 12		3		
26	Trium in Cingulo præcedens —	δ	25 20	24 10		14 34	23 57		2		
27	media —	ε	27 20	24 50		16 10	24 36		2		
28	sequens —	ζ	28 10	25 40		17 4	25 24		2		
29	In Manubrio Ensis —	η	23 50	25 50		11 55	25 37		3		
30	Trium Contiguarum in longo Ensis Boreæ —	ε	26 30	28 20		15 13	27 54		4		
31	Media —	θ	23 20	29 0		15 19	28 27		3		
32	Austrina —	ι	27 0	29 50		15 34	29 12		3		
33	Duarum sub Ensis Mucrone sequens —	δ	27 40	30 40		16 25	30 42		4		
34	præcedens —	υ	26 30	30 50		14 31	30 51		4		
35	In sinistro Pede splendida —	β	19 50	31 30		9 25	31 18		1		
36	Hæ Borealisior supra-Talam, in Tibia —	τ	21 0	30 15		10 37	30 24		4		
37	Sub sinistro Calcaneo extra —	ε	23 20	31 10		12 1	31 15		4		
38	Sub dextro & sequente Genu —	κ	0 10	32 20		18 40	32 21		3		

In Constellatione ERIDANI.

1	Quæ In Origine Fluvii —	λ	18 20	31 50	A	7 55	31 54	A	4		
2	Hæ Borealisior in Flexu ante Crus Orionis —	b	18 50	28 15		8 7	28 11		4		
3	Duarum hanc sequentium sequens —	↓	18 0	29 50		5 40	29 54		4		
4	præcedens —	ω	14 40	28 15		3 43	27 48		4		
5	In ductu (secundo) sequens —	μ	13 10	25 50		2 1	5 48		4		
6	præcedens —	ν	10 10	25 20		8 29	16 25 24		4		
7	Trium post hanc sequentium sequens —	ε	6 20	26 0		25 19	26 0		5		
8	media —	ε	5 30	27 0		22 55	28 15		4		
9	præcedens —	A	2 50	27 50		21 40	27 39		4		
10	De quatuor in sequenti spatio sequens —	γ	27 0	32 50		16 40	33 15		3		
11	hanc præcedens —	π	24 40	31 0		13 31	31 15		4		
12	Hanc adhuc præcedens —	δ	24 10	28 50		13 10	29 0		3		
13	sequens —	ε	22 10	28 0		10 46	27 48		3		
14	De quatuor (in ductu quinto) sequens —	ζ	17 10	25 30		6 34	26 9		3		
15	hanc præcedens —	ρ	14 50	23 50		4 7	23 54		4		
16	Adhuc hanc præcedens —	η	12 10	23 10		1 16	24 30		3		
17	Omnes præcedens —	σ	10 30	23 15		0 14	24 12		4		
18	In reflexu Fluvii, tangit Pectus Ceri — 1 ad	τ	5 10	32 10		24 40	33 0		4		

In Constellatione ERIDANI.

Ordo	STELLARUM Denominatio.	Regr. Cha.	Procl. Longit.			Procl. Latit.			Ul. Beig. Longit.			Ul. Beig. Latit.			Magnitud.
			S	O	I	O	P		S	O	I	O	P		
19	Quæ Hinc sequitur ————— 2 ad	γ	5	50	34	50	A		γ	25	25	35	39	A	4
20	Trium Ordine sequentium præcedens —————		8	50	38	50			γ	27	40	39	45		4
21	media —————		13	50	38	10			δ	3	7	38	30		4
22	sequens —————		17	30	39	0				6	49	39	27		4
23	De quatuor in quadril. præced. Lateris Boreæ ———		21	20	41	20				10	25	41	30		5
24	Australina —————		21	30	42	30				10	37	42	30		5
25	Sequentis Lateris præcedens —————		22	10	43	15				11	1	44	0		4
26	sequens —————		24	40	43	20				13	10	44	6		4
27	Duarum contiguarum Distant. ad Ortum Boreæ ———	u	δ	4	1	50	20			21	43	50	42		4
28	Australina —————	u	5	0	51	45				22	10	51	45		4
29	Duarum deinde post flexum sequens —————		γ	28	17	53	50			16	25	54	30		4
30	præcedens —————		25	50	53	10				14	1	54	9		4
31	Trium in Reliquo Spatio sequens —————		17	50	53	0				4	1	54	3		4
32	media —————		14	50	53	30				2	40	55	39		4
33	præcedens —————		11	50	52	0				0	25	55	0		4
34	Ultima fluvii Lucida —————	π	26	30	32	30				γ	15	4	53	45	1

In Constellatione LEPORIS.

1	Quæ Boreæ præcedentis Lateris quadrilateri ad Aures ———	δ	19	4	35	0	A		II	7	40	35	0	A	5
2	Australina præcedentis Lateris —————	κ	19	50	36	30				7	31	36	0		5
3	Boreæ sequentis Lateris —————	γ	21	20	35	40				9	55	35	30		5
4	Australina sequentis Lateris —————	λ	21	20	36	40				9	43	36	18		5
5	In Mento —————	μ	19	10	39	15				7	10	39	30		4
6	In Pedè anteriore sinistro —————	η	16	10	45	15				4	10	45	30		4
7	In medio Corpore —————	α	25	50	41	30				13	14	18			2
8	Sub alvo —————	5	23	50	44	15				11	43	14	12		2
9	In Posterioribus Pedibus Boreæ —————	β	1	0	44	0				19	10	44	9		4
10	Australina —————	γ	29	0	45	50				16	43	46	9		4
11	In Lumbis —————	II	0	0	38	20				17	50	38	30		4
12	In Extremitate Caudæ —————	γ	2	40	38	10				20	33	38	0		4

In Constellatione CANIS MAJORIS.

1	Quæ in Ore Splendidissima Sirius —————	δ	17	40	39	10	A		5	6	19	39	30	A	1
2	In Auribus —————	8	19	40	35	0				8	55	34	45		4
3	In Capite —————	11	21	20	36	30				9	25	36	15		5
4	Duarum in Colla Boreæ —————	γ	23	20	37	45				12	25	38	0		4
5	Australina —————	1	25	20	40	0				11	40	39	45		4
6	In Pedore —————	π	20	30	42	40				7	25	43	0		5
7	Duarum in dextro Genu Boreæ ————— 1 ad	1	16	10	41	15				4	43	41	19		6
8	Australina ————— 2 ad	2	16	0	42	30				4	31	42	30		5
9	In Extremitate Pedis Anterioris —————	8	11	0	41	20				II	29	25	41	30	3
10	Duarum finitru Genu præcedens ————— 1 ad	1	14	40	46	30				5	3	4	46	36	5
11	sequens ————— 2 ad	2	16	10	45	50				4	40	46	0		5
12	Duarum in sinistro Humero sequens ————— 1 ad	0	24	40	46	10				13	19	46	15		4
13	præcedens ————— 2 ad	0	21	40	47	0				10	7	46	48		5
14	In Eductione sinistri Femoris —————	5	26	40	48	45				15	10	48	21		3
15	Sub Alvo inter duo Femora —————	6	23	40	51	30				12	40	51	42		3
16	In Poplite dextri Cruris —————	κ	23	0	55	10				10	25	55	15		4
17	In Extremitate dextri Pedis —————	λ	9	40	53	45				0	7	53	45		3
18	In Cauda —————	μ	2	10	50	40				11	25	50	45		3
19	Informes														
20	A Vertice Capitis Septentrionem versus —————	II	19	30	55	15				11	21	22	42		4

In Constellatione CANIS MAJORIS.

Ordo	STELLARUM Denominatio.	Borealis	Ptole.			Ptole.			Ul. Beig.			Ul. Beig.			Magnitudo
			Longit.	Latit.		Longit.	Latit.		Longit.	Latit.		Longit.	Latit.		
			50	0	0				50	0	0				
2	Quae IX. quatuor Pollicem in recta Austrina		11	10	06	30	A		11	25	16	45	A		4
3	Hae Boreali		11	20	58	45			28	55	58	45			4
4	Et hae infra Boreali		13	05	57	0			31	75	56	51			4
5	Reliquae de quatuor Boreali		14	10	46	0			2	55	55	48			4
6	Trium ab his ad Occiduum quasi in recta praecedens		18	05	55	30			16	40	55	21			4
7	media		11	02	57	40			19	31	57	15			4
8	sequens		2	20	59	50			20	55	58	30			4
9	Duarum sub his Splendidarum sequens		8	29	05	40			17	55	59	30			2
10	praecedens		26	05	57	40			14	25	57	24			2
11	Reliquae sunt dictae Australis		27	10	54	20			10	25	58	20			3

In Constellatione CANIS MINORIS.

1	Quae In Collo		15	01	14	00	A	14	20	13	54	A	4
2	In Posterioribus Femoribus dicta Procyon		29	10	16	10			18	2	16	0	1

In Constellatione NAVIS.

1	Quae Duarum in lunulo Puppis Ornamento praecedens	e	10	20	42	30	A	29	16	42	42	A	5
2	sequens	b	14	20	43	20		31	3	10	43	33	3
3	Duarum contiguarum sub Scuto Boreae	E	8	50	45	0		28	12	45	12		4
4	Austrina	o	8	40	46	0		27	43	46	21		4
5	Has praecedit	e	5	20	45	30		24	22	46	24		4
6	In medio Scuto Splendida	x	6	20	47	15		25	10	47	42		3
7	Trium sub Scuto praecedens	o	5	20	49	45		24	55	49	9		4
8	sequens	p	9	20	49	50		27	34	49	24		4
9	media	7	8	20	49	15		27	19	49	6		4
10	In Jherisco		14	0	49	50		31	55	49	48		4
11	Duarum in Carina Puppis Boreae	b	4	0	53	0		23	55	51	54		4
12	Austrina	2	4	0	58	40		23	15	58	30		3
13	Duarum in Tabulato Puppis Boreae		10	10	55	30		29	7	55	30		5
14	Trium inde sequentium praecedens	1 ad	12	10	58	40		31	0	55	59		0
15	media	2 ad	13	40	57	15		2	25	57	57		4
16	sequens		16	30	57	45		5	43	58	9		4
17	Lucida has sequens in Tabulato	x	21	10	58	40		10	10	59	36		2
18	Duarum obscurarum infra Lucidam praecedens		18	10	60	0		6	43	60	0		5
19	sequens		21	09	59	20		10	40	59	51		5
20	Duarum supra dictam splendidam praecedens		23	10	56	40		9	55	57	21		5
21	sequens		24	20	56	40		11	25	57	49		5
22	In Scutellis maiorem ambientibus Boreae		5	4	51	30		25	16	51	30		4
23	Media		6	10	55	40		25	25	57	0		4
24	Australis		4	0	57	10		23	55	59	0		4
25	Sub his duarum contiguarum Boreae		9	10	60	0		28	25	60	15		4
26	Austrina		9	06	61	16		28	19	61	24		4
27	Duarum in medio Mili, Australior	1 ad	0	10	51	40		18	45	51	24		3
28	Borealior	2 ad	29	20	49	0		18	34	49	6		3
29	Duarum in Extremitate Mili, praecedens	3 ad	28	04	43	20		17	22	43	39		4
30	sequens	4 ad	29	04	43	30		18	35	43	15		4
31	Sub tribus & Scutelli sequentis est		14	10	54	30		3	45	9	2		2
32	In Sectione Tabulati		17	30	51	15		6	43	51	15		2
33	Inter Gubernacula, in Carina		11	10	63	0		31	0	63	54		2
34	Hanc sequitur obscuri		19	06	43	30		10	16	65	24		6
35	Infra sequitur sub Tabulato		0	06	43	30		19	12	64	15		2

In Constellatione NAVIS.

Ordo	STELLARUM Denominatio.	Bayer Class.	Ptole. Longit.			Ptole. Latit.			Ul. Beig. Longit.			Ul. Beig. Latit.			Magnitud.
			5	0	1	0	1		5	0	1	0	1		
36	Quæ Hæ Australior in infima parte Carinæ, lucida		8	30	69	40	A		28	11	59	40	A	2	
37	Trium hæc sequentium præcedens		15	10	65	40			4	51	65	40		2	
38	media		21	20	65	50			10	20	65	50		3	
39	sequens		26	00	67	20			15	41	66	20		2	
40	Duarum hæc sequentium ad Sectionem, præcedens		1	00	62	50			20	41	62	50		3	
41	sequens		8	00	62	15			27	41	62	15		3	
42	Duarum in Boreo & præced. Gubern. præcedens		4	00	65	50			12	13	66	9		4	
43	sequens		20	10	65	40			8	31	66	12		3	
44	Duarum in altero Gubernaculo, præcedens Canobus		17	10	75	0								1	
45	Reliqua ipsam sequens		29	07	1	45								3	

In Constellatione HYDRÆ.

1	Quæ Duarum præced. de 5 ^a in Capite Austrina io Nare	σ	14	0	15	0	A		3	28	14	33	A	4	
2	Borea supra Oculum	ρ	13	20	13	40			2	25	12	30		4	
3	Duarum hæc sequentium Borea quasi in Cranio	ε	15	20	11	30			4	28	11	15		4	
4	Austrina in Hiatu Oris	η	15	30	14	15			4	25	14	9		4	
5	Ultima quasi in Gena vel mento	ζ	17	50	12	15			6	55	11	9		4	
6	Duarum in Educatione Cervicis præcedens	ω	20	20	11	50			9	4	12	9		5	
7	sequens	θ	23	20	13	40			12	28	13	0		4	
8	Trium sequentium in flexu Colli Media	1 ad τ	28	50	15	20			18	1	5	6		4	
9	Sequens	ι	0	40	14	50			19	28	14	39		4	
10	Australissima	2 ad τ	28	10	17	10			17	55	6	42		4	
11	Duarum ad Aust. sequent. Contig. Borea & obscura	Α	29	10	19	45			18	43	21	42		6	
12	Contiguarum Lucidior	α	0	0	20	30			19	31	22	30		2	
13	Trium post flexum sequentium præcedens	κ	6	0	26	30			28	10	26	0		4	
14	media	seq. ad λ	8	40	26	0			10	0	13	15		4	
15	sequens	υ	11	10	23	15			1	10	22	0		4	
16	Trium quasi in recta sequentium præcedens	μ	18	0	24	40			7	42	4	45		3	
17	media	φ	20	0	3	0			10	12	3	36		4	
18	sequens	ψ	23	0	22	10			12	37	12	0		3	
19	Duarum infra Basin Crateris Borea	δ	1	30	25	45			20	46	25	39		4	
20	Austrina	γ	2	20	30	10			21	16	21	21		4	
21	Trium post hæc quasi in Δ ^a præcedens	γ	12	10	31	20			0	1	31	42		4	
22	media & Australior	ι	14	30	33	10			3	10	33	48		4	
23	sequens	ς	16	10	31	20			5	10	31	15		3	
24	Post Corvum in Origine Caudæ	γ	0	0	13	40			18	55	13	45		4	
25	In Extremitate Caudæ	τ	13	30	17	40			11	10	13	9		4	
	Informes														
1	A Capite Austrum versus	σ	12	30	23	15			0	2	16	22	39		3
2	Tres in Collo distans sequitur	η	11	0	16	0			29	4	10	12		3	
3	CRATERIS in basi communis cum Hydra	α	16	20	23	0			15	55	22	42		4	
4	Duarum in medio Cratere Australior	γ	2	30	19	30			21	55	19	45		4	
	Borealiior	δ	0	0	18	0			19	1	17	42		4	
5	In Australi Oris ambitu	ζ	7	0	18	30			25	37	18	33		4	
6	In Boreo ambitu Oris	ε	29	20	13	40			18	22	13	21		4	
7	In Australi Ansa	η	9	10	16	10			27	55	10	18		4	
8	In Boreali Ansa	θ	14	10	11	50			20	55	11	24		4	
9	CORVI in Rostris communis cum Hydra	α	15	20	21	40			4	13	22	0		3	
10	In Collo juxta Caput	β	14	20	19	40			3	58	19	15		3	
11	In Pectore	γ	16	40	18	10			6	25	18	15		5	
12	In Ala dextra & præcedente	γ	13	30	14	50			2	46	14	18		3	

In Constellatione HYDRÆ:

Ordo	STELLARUM Denominatio.	Prole.		Prole.		Ul. Beig.		Ul. Beig.		Magnitudo.
		Longit.	Latit.	Longit.	Latit.	Longit.	Latit.			
		S O	O P	S O	O P	S O	O P	S O	O P	
5	Quæ Duarum in Ala sequenti, præcedens	15	40	14	30	5	31	12	0	3
	sequens	17	0	11	45	6	1	11	39	4
	In Extremitate Pedis communis cum Hydra	20	30	18	10	9	40	17	49	

In Constellatione CENTAURI.

1	De quatuor in Capite Australissima	a	10	30	21	40	A	M	0	25	22	9	A	5
2	Ipsa hac Borelior	b	10	0	18	50		M	29	37	19	6	5	5
3	Reliquarum duarum mediarum praecedens	i	9	10	30	30		M	29	16	20	48	4	4
4	sequens	k	10	0	20	0		M	0	120	0	0	5	5
5	In sinistro & praecedente Humero	l	6	10	25	40		M	25	13	25	48	3	3
6	In dextro Humero	h	15	40	22	30		M	4	40	21	57	3	3
7	In sinistra Scapula	j	9	10	27	30		M	28	25	27	45	4	4
8	Duarum praeced. de quatuor in Thyryo Borea	i	18	10	22	20		M	7	25	23	0	4	4
9	Austrina	o	19	10	23	30		M	8	24	24	0	4	4
10	Duarum Reliquar. in Extremo Thyryo Borea	π	22	0	18	15		M	11	16	18	6	4	4
11	Austrina	ρ	22	30	20	50		M	11	37	21	15	4	4
12	Trium in dextro Latere praecedens	τ	13	20	28	20		M	2	44	28	45	4	4
13	Media	υ	14	0	29	20		M	3	40	29	24	4	4
14	Australis	φ	15	10	28	0		M	4	55	27	45	4	4
15	In dextro Brachio	ϕ	16	20	26	30		M	6	7	26	42	4	4
16	In dextro Cubito	χ	22	50	25	15		M	12	22	24	33	3	3
17	In Minu dextra	σ	27	30	24	0		M	16	46	25	15	4	4
18	In Educatione Corporis Humani splendida	λ	13	0	33	30		M	6	55	32	48	4	4
19	Duarum obscurarum hac Boreliorum, sequens	ζ	17	40	31	0		M	6	48	30	48	5	5
20	praecedens	η	16	50	43	0		M	5	55	30	0	5	5
21	In Educatione (Origine) Scapulae	ω	12	10	34	50		M	1	55	34	54	5	5
22	In Scapula Equi hinc praecedens	ο	9	0	37	40		M	28	1	37	42	5	5
23	Trium in Lumbis sequens	υ	5	50	40	0		M	24	40	40	22	3	3
24	media	ε	5	0	43	0		M	23	46	40	0	4	4
25	praecedens	θ	2	40	41	0		M	21	55	41	0	3	3
26	Duarum Contiguarum in dextro Femore praecedens	β	2	40	46	10		M	22	4	46	6	3	3
27	sequens	γ	3	30	46	45		M	23	1	46	15	4	4
28	In Pectore Equi sub Axilla	α	18	20	40	45		M	8	140	45	3	3	3
29	Duarum sub Ventre praecedens	δ	16	20	43	0		M	6	143	0	2	2	2
30	sequens	ε	17	40	43	45		M	7	143	45	2	2	2
31	In Poplite Cruris dextri	ζ	10	0	51	10		M	29	41	51	10	2	2
32	In eisdem Suffragine	η	15	20	51	40		M	5	154	40	2	2	2
33	Sub Poplite finistri Cruris	θ	6	20	55	10		M	26	1	55	10	2	2
34	In Sura (vel Musculo) ejusdem Cruris	ι	11	10	55	20		M	0	51	55	20	3	3
35	In Extremitate Pedis dextri anterioris	κ	8	20	41	10		M	28	141	10	1	1	1
36	In Genu Pedis finistri (vel Cruris)	λ	14	20	45	20		M	13	51	45	20	2	2
37	Extra sub dextro Pede posteriore	μ	14	40	49	10		M	4	21	49	10	2	2

In Constellatione LUP I.

1	Quæ	In Extremo anteriore Pede prope Manum Centauri	♂	238	224	50	17	7	25	0	3
2		In Poplite ejusdem Pedis (i. e.) Cruris	♂	25	50	29	10	15	25	30	3
3		Duorum ad Scapulam præcedens	♂	1	621	15	21	4	21	18	4
4		sequens	♂	4	10	21	0	23	25	18	4
5		In medio Fecæ Corpore	♂	3	235	10	22	37	25	12	4
6		In Ventre sub Alvo	♂	0	10	27	0	19	19	27	5

In Constellatione LUPI.

Ordo.	STELLARUM Denominatio.	Rect. Asc. Solis	Prole. Longit.				Prole. Latit.	Ul. Belg. Longit.				Ul. Belg. Latit.	Magnitudo.	
			S	O	I	O		S	O	I	O			
7	Quæ in Femore	♏	0	50	29	0	A	♏	20	7	29	12	A	5
8	Duarum in Eductioe Femoris Borealior	♏	4	40	28	30			22	31	29	0		5
9	Australior	♏	3	40	30	0			22	4	29	57		5
10	In summo Lumbi	♏	5	40	33	10			25	41	33	10		5
11	Trium in Extremitate Caudæ Austrina	♏	22	0	31	20			9	41	31	20		5
12	Media	♏	24	50	30	30			11	13	30	36		4
13	Borea	♏	23	0	29	20			12	25	29	24		4
14	Duarum io Jugulo Australior	♏	8	50	17	0			28	1	17	18		4
15	Borealior	♏	9	20	15	20			28	19	15	45		4
16	Duarum in Rostris præcedens	♏	5	40	13	20			24	55	13	21		4
17	sequens	♏	6	40	11	50			26	1	13	30		4
18	Duarum in anteriore Pede, Austrina	♏	27	10	11	50			16	40	13	61		4
19	Borea	♏	26	20	10	0			16	58	11	20		4

In Constellatione ARÆ vel THURIBULI.

1	Quæ Duarum in Bate Borealior	♏	27	40	23	40	A	♏	17	21	22	40	A	5
2	Australior	♏	3	0	25	45			20	1	25	45		4
3	In medio Capitis Arile	♏	26	20	26	30			15	51	26	30		4
4	Trium in Foculo Borea		20	40	30	20			10	21	30	20		5
5	Duarum Reliquarum Contiguarum, Austrina		25	1	34	10			14	51	34	10		4
6	Borea		25	0	33	20			14	41	33	20		4
7	In Extremitate Cauteris		20	50	34	15			10	31	24	0		4

In Constellatione CORONÆ AUSTRALIS.

1	Quæ ad ambitum Australem præcedit extra	α	7	10	21	30	A	♏	28	7	22	0	A	4
2	In ipsa Corona hanc sequitur	β	11	40	21	0			W	4	34	21	18	5
3	Et hanc sequitur	γ	13	10	23	0				2	16	20	30	5
4	Hujus & io Consequens	δ	14	50	20	0				3	52	19	51	4
5	Post hanc ante Genu Sagittarii	ε	16	10	18	30				5	16	18	18	5
6	Post ipsam & Borealior lucida in Genu Sagittarii	θ	17	0	17	10				6	10	17	18	4
7	Hæc Borealior	δ	16	20	16	0				6	1	16	12	4
8	Adhuc ipsa Borealior	γ	16	30	15	10				4	34	15	15	4
9	Duarum hanc præced. in ambit. Boreæ sequens	ι	15	10	15	20				4	10	15	12	5
10	obscurarum præcedens	κ	14	40	14	50				4	1	14	39	6
11	Ab hac distat in Antecedentia	ι	11	50	14	40				1	25	15	0	5
12	Etiā hanc antecedit	κ	9	40	14	50				29	7	16	0	5
13	Reliqua præcedente Australior	λ	9	10	18	30				28	1	18	26	5

In Constellatione PISCIS AUSTRINL

1	Quæ In Ore eadem est in principio Aquæ Aquarii	α	7	0	23	0	A	♏	20	40	21	30	A	1
2	Trium in Australi ambitu Capitis, præcedens	β	0	40	20	20				24	10	23	30	4
3	media	γ	4	10	22	15				24	55	23	48	4
4	sequens	δ	5	20	22	30				24	46	17	45	4
5	Ad Branchiam	ε	4	20	16	15				15	55	21	0	4
6	In Australi Pinna super Costis.	μ	W	25	10	19	30			22	7	16	45	5
7	Duarum in Ventre sequens	ζ	1	10	15	10				18	47	16	15	5
8	præcedens	λ	W	28	50	14	40			15	22	15	30	4
9	Trium in piona Boreæ sequens	η	25	10	15	0				11	19	16	54	4
10	media	θ	21	50	16	30				10	25	18	33	4
11	præcedens	ι	21	0	18	10				10	25	23	15	4
12	In Extrema Cauda	ι	20	10	22	15								4

In Constellatione PISCIS AUSTRINL							
Ordo	STELLARUM Denominatio.	Bayer Char.	Ptole.		Ul. Beig.		Magnitudo
			Longit.	Latit.	Longit.	Latit.	
	<i>Informes.</i>		50	0	50	0	
1	Quæ Trium Lucidarum præcedentium Piscem antecedens		8	032	20	A	3
2	media —		11	1022	10		3
3	sequens —		14	021	10		3
4	Hanc præcedit obicura —		12	030	50		5
5	Duarum Reliquarum Septentrion. versus, Australior		13	5017	0		4
6	Borealiior		13	5014	50		3

TYCHONIS BRAHÆI

Catalogus Fixarum Stellarum,

Ad ANNUM completum 1600.

Cui etiam adjicitur,

Principis HASSIÆ

Catalogus Stellarum Fixarum,

Ad ANNUM 1593.

In Constellatione ARIETIS.

STELLARUM Denominatio.	Bayer Char.	TYCHONIS.		Magnitudo	PRINC. HASS.		Magnitudo
		Longitudo	Latitudo		Longitudo	Latitudo	
		5 0 1" 0 1 "			5 0 1" 0 1 "		
Australis in præcedente Cornu	γ	27 37	7 8½ B	4	27 30 20	7 5 40 B	3
Borealis ac sequens in eodem Cornu	β	28 23	8 29	4	28 17 30	8 25 0	3
Lucida in Vertice Capitis	α	2 6	9 57	3	1 58 12	9 54 12	2
In ritu duarum Borea	δ	2 34	7 23	6			
Quæ magis ad Austrum	ε	3 30	5 42½	6			
Quæ in Cervice	ζ	27 47	5 24	5			

In Constellatione ARIETIS.

STELLARUM Denominatio.	Bayer's Char.	TYCHONIS.		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		s o ' " o ' "	s o ' " o ' "		s o ' " o ' "	s o ' " o ' "	
In Renibus	γ	8 30	6 7 B	6			
Quæ in Eductione Caudæ	δ	12 57	4 8½	5	8 12 49 45	4 4 30 B	4
Præcedens trium in Cauda	ϵ	15 15	1 4½	4	15 8 36	1 42 45	4
Media	ζ	16 24	2 50	5	16 15 45	2 42 54	4
Ultima	η	17 50	2 36	6	27 43 C	2 38 54	4
In Femore	ρ	11 22	1 12	6			
In Poplite	π	9 35	1 7	6			
In Genu sinistro	σ	9 23	1 30 A	6			
In Genu dextro	ϕ	7 52	0 39	6			
Parvula in Alvo	μ	8 46	4 1 B	6			
Quæ est infra lucidam, Capitis	κ	1 41	9 13	6			
Supra Dorsum quatuor infirmium præced.		10 35	10 50	5			
Sequens scilicet ad basin Occi. Δ ex sequent.		11 23	11 16	4			
Orientalis in basi Trianguli		12 40	10 24	3	12 32 C	10 22 36	4
In Avicæ eiusdem Trianguli ad Boream		12 51	12 25	4			

In Constellatione TAURI.

Suprema Inflectione	ζ	18 0	5 57 A	5			4
Altera post ipsam	ϵ	17 30	7 29	6			
Tertia	δ	16 18	8 49½	4	5 16 12 C	8 53 20 A	4
Quarta Maxima Austrina	θ	15 35	9 22½	4	15 28 20	9 24 15	4
In dextro armo	ϵ	21 46	8 41	5			
In Pedore	λ	25 1	8 3	4	24 56 45	8 2 40	3
In Genu dextro	μ	27 59	12 13½	4			
In Suffragine dextra		24 19	14 30½	4			
In Genu sinistro	ν	4 9	9 32	5			
In Suffragine sinistra	ν	3 11	11 48	5			
In facie Sicularum, prima in Naribus	γ	0 12	5 46½	3	II 0 6 C	5 48 50	3
Inter hanc & Oculum Boreum	δ	1 14	4 2	3	1 10 45	4 4 20	3
Quæ inter eandem & Oculum Australem	θ	2 22	5 53	4	2 15 24	5 52 36	3
In Austrino Oculo, Aldebaran, Paluberum	α	4 12	5 31	1	4 6 C	5 31 45	1
In Boreo Oculo	β	2 53	2 36½	2	2 45	2 39 40	
Ad Radicem Cornu Australis	ι	8 12	3 40	6			
In eodem Cornu duarum Australior	ι	12 13	2 30½	6			
Quæ magis in Boream		11 4	1 49½	4			
In Extremitate ejusdem	ζ	19 12	2 14	3	19 6 C	2 16 30	3
In Origine Cornu Septentrionalis	τ	6 35	0 40	5			
In Extrem. comm. cum dext. ped. Hemochi	β	16 59½	5 20	2	16 52 20	5 20 40 B	3
In Aure duarum Boreæ	ν	2 54	1 4	5			
Australior	κ	2 38	0 35 B	4			
In Collo duarum præcedens	ω	8 27 51	1 12	5			
Quæ sequitur	ω	II 0 28½	0 45½ A	6			
In Cervice quadrilateri præcedentium, Austrina	ρ	0 4	5 16 B	6			
Ejusdem Lateris Boreæ	$\downarrow$	8 29 45	7 55	5			
Sequentis Lateris Australi	χ	II 2 34	3 57	5			
Hujus Lateris Boreæ	ψ	2 25	5 45½	5			
Occidentalis lucidarum trium in Plejadibus	β	8 23 13	4 11	5	8 23 40 20	4 5 50 B	4
Infima & Occidentali Proxima	ρ	24 3	4 2	6	23 54 24	3 55 0	5
Medis & lucida Plejadum	π	24 24	4 0	3	24 18 12	3 59 6	3
Quæ est in Cuspide ad Ortum	ζ	24 47	3 55	5	24 40 C	3 50 20	4
In Ungula Pedis sinistra	π	II 19 57	3 30 A	6			
Stellula in talo Pedis sequentis	ν	0 10	12 2	6			
Quæ in armo dextro	β	1 58	8 41	5			

In Constellatione TAURI.

STELLARUM Denominatio.	Rever. Brahai.	TICHONIS		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		s o ' "	o ' "		s o ' "	o ' "	
Præcedens trium infra Suculas	α	1 42	6 56½ A	5			
Medis earundem	β	3 28	7 4½	5			
Sequens	γ	4 55	6 17½	5			
Parvulus in Australi Cornu	δ	15 2½	1 4	6			
Sequens in eodem Cornu	ε	16 55½	1 20	6			
Parvulus sequens quatuor in Sectione	ζ	17 33	9 34½	6			
Quæ est inter binas præced. in □ Colli	η	29 22½	6 33	5			

In Constellatione GEMINORUM.

In superiori Capite Castor Apollo	α	14 41	10 2 B	2	14 33	10 3 45 B	2
In inferiore Capite Pollux, Hercules	β	17 43	6 38	2	17 35	6 39 10	2
In sinistra Manu præcedentis Gemini	γ	5 32	10 58	5	5 24 30	10 58 15	4
In sinistro Brachio	δ	9 54	7 43	4	9 43	7 41 45	4
In scapulis ejusdem	ε	13 24	5 42½	4			
In dextro Humero	ζ	15 47	5 10	5			
In sinistro Humero sequentis Gemini	η	18 6	3 3	4			
In latere dextro antecedentis Gemini	θ	13 18	2 56	6			
Stellula in sinistro Cubito superioris Gemini	ι	14 10	6 0½	6			
In Boreali & supremo Genu	κ	4 22	2 11	3	4 14	1 59 48	3
In sinistro Genu sequentis	λ	9 26	2 6½ A	3	9 17 20	2 6 45 A	3
Quæ in Ventre Meridionalis Gemini	μ	12 56	0 13½	3	12 49	0 13 54	3
In poplite inferioris Gemini	ν	13 13	5 41	4	13 4 45	5 41 50	3
In Pede præcedentis Gemini antecedens	ξ	27 53	0 38	4	27 46 20	0 56 50	3
Sequens in eodem Pede dicta Calx	ο	29 44	0 53	3	29 37 45	0 53 0	3
In Extremitate Pedis dextri, præced. Gemini—Lucida	π	1 14	3 8	2	1 6 30	3 7 45	2
In infimo Pede sequentis Gemini	ρ	3 31	6 48½	4	3 24 48	6 49 30	2
In calce Pedis ejusdem	σ	5 29½	10 9	4	5 22 15	10 8 30	3
Quæ est supra Genu inferioris Gemini	τ	7 56	9 41	6			
In femore superioris Gemini	υ	6 23½	1 12	6			
Quæ infra Caput infer. in Manu	φ	8 37½	1 31 B	6			
Parvula inter utramq; Caput	χ	19 42	5 44	6			
Ad Aures superioris Gemini	ψ	17 41	7 24	5			
Præced. ad summum pedem Propus græce	ω	13 29	9 42	5			
	Η	25 22	0 13 A	4			

In Constellatione CANCRI.

Nebulosa in Pectore	α	61 1 46½	1 14 B	Neb	61 1 37	0 1 14	0 B	Neb
Borea præcedentium in □ Cancræ	π	29 49	1 31 30	5				
Australior	θ	0 9½	0 47 30 A	5				
Alcillus Boreus	γ	1 57	3 8 B	4	1 51 50	3 1 24	4	
Australis	δ	3 8	0 4 A	4	3 2 50	0 3 45	4	
In Brachio Australi	ε	8 3½	5 8 B	3	7 58 37	5 6 10 A	4	
In Brachio Boreali	ι	0 44	10 23 B	5	0 38 40	10 24 20 B	4	
In Extremitate Pedis Borei	κ	23 56	1 15½	5				
In Extremo Pedis Austrini	λ	25 4	7 5 A	5				
Quæ in radice Cauda Lucidior	μ	25 45½	2 18½	4	25 40 10	2 19 0 A	3	
Proxime sequens in Dorso	ν	28 12½	1 4	6				
Borealis trium in Brachio Australi	ξ	6 47½	1 54	6				
Australis in eodem	ο	10 36	5 36	5				
Duarum in Rostro, Septentrionalis	π	5 27	7 14 B	6				
Inferior & Australis	ρ	7 36½	5 20	6				

In Constellatione LEONIS.

STELLARUM Denominatio.	Byz. Chron.	TYCHONIS.		Magnitudo.	PRINC. HASS.		Magnitudo.
		Longitudo	Latitudo		Longitudo	Latitudo	
		S O I I I	O I I I		S O I I I	O I I I	
In Naribus	κ	9 41	10 23 B	4			
In Hiaru	λ	12 16	7 52	4			
In Capite duarum Boreali	μ	15 51	12 21	4	15 48	10 12 23 20 E	3
Australior	ν	15 5	9 40	3	15 1 40	9 42 30	3
In Collo trium Borea	ζ	21 57	11 50	3	21 49 40	11 51 20	3
Media & lucida Colli	γ	23 59	8 47	2	23 52 20	8 50 0	2
Australis	η	22 20	4 52	3	22 14 0	4 51 30	3
Cor, Regulus, Basiliscus	α	24 17	0 26	1	24 10 20	0 29 24	1
In Pectore Australior	δ	24 50	1 25	A 5			
Antecedens Regulam Proxime	τ	21 43	0 0	B 4			
Quæ hanc præcedit in Genu dextro	ι	17 54	0 15	5			
In Dextra dextra	ε	16 7	3 10 A	4			
Sequens in altero Pede	υ	18 40	3 47	4			
In Dextra sinistra	π	23 46	3 55	4			
In sinistra Axilla	ρ	0 43	0 8 E	4			
In Ventre trium antecedens	ι	22 24	2 10	6			
Sequentium Boreali	κ	2 6	5 56	6			
Australior	λ	4 5	2 49	6			
Præcedens duarum in Lumbis	β	3 14	12 53	5			
Quæ sequitur, lucida	δ	5 41	14 20	2	5 55	0 14 22 10	2
In Clune duarum præcedens & Borea	θ	7 50	9 41	3	7 45	0 9 42 15	3
Sequens & Australis	η	9 8	7 50	6			
In Femore	ι	11 58	6 7	3			
In Genu posteriori	σ	13 8	1 40	4			
Media in Pede	τ	15 57	0 33 A	4			
Infima in Pede	υ	19 27	3 2	4			
In Extremo Cauda lucida	δ	16 3	12 18 B	1	15 58	0 12 21 15	1
Extrema ungula Pedis finitri	ε	16 32	4 48 A	6			
In ungula alterius Pedis præcedentis	ι	16 1	5 43	5			
Quæ in medio Corpore, fere	η	0 14	10 17 B	6			

In Constellatione VIRGINIS.

Borealis præcedentium in Capitis	ε	17 44	6 6	B 5			
Australis	ν	18 33	4 37	5			
Sequentium duarum in Vultu Borea	ο	22 7	8 33	5			
Australis	π	21 58	6 10	5			
In Extremo Alæ Australis & sinistra	β	21 32	0 43	3	21 23 20	0 43 0 B	3
Præcedens quatuor in sinistra Ala	η	29 16	1 25	4	29 9 50	1 25 0	3
Altera sequens	γ	4 35	2 50	3	4 31 10	2 53 24	3
Penultima parva	κ	9 28	2 23	6			
Ultima	θ	12 37	1 45	4	12 32 0	1 49 0	4
In dextro litere sub Cingulo	δ	5 55	8 41	3	5 48 40	8 49 54	3
In dextra & Borea ala trium præcedens	ρ	29 53	13 36	5			
Reliquarum duarum Australis	ι	1 52	11 37	6			
Boreali, Vindemiatrix vocata	α	4 23	16 15	3	4 16 10	16 17 10	3
In sinistra Manu, Spica	α	18 16	1 59 A	1	18 9 30	1 57 20 A	1
Sub Perizomate in Clune dextra	ζ	15 22	8 10 B	3	16 28 0	8 43 45 E	3
In sinistra coxa Borealis	ι	17 58	3 11	6			
Sequentium duarum Boreali	κ	21 9	1 45	6			
Australior	λ	19 44	0 19 A	6			
In Genu sinistro	υ	24 44	2 24 B	6			
Boreali in superiori sinistria, duarum	ι	27 49	11 2	5			
Media trium in sinistria	κ	28 9	7 18	4	28 5 20	7 20 20	4

In Constellatione VIRGINIS.

STELLARUM Denominatio.	Bayer Cod.	TYCHONIS		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		S O I " 0 I "	S O I " 0 I "		S O I " 0 I "	S O I " 0 I "	
Intima & Australis	κ	28 51	2 57½ B	4	28 49 30	2 59 12 B	4
Australior duarum in superiori umbra	φ	29 51½	11 48	4			
in Australi Pede	λ	1 22	0 31½	4	1 16 40	0 35 26	4
In Boreali seu dextro Pede	μ	4 30	3 49	4			
inferior duarum inter Vindem. & Cing.	δ	1 21	10 26	6			
Sequens illam quæ in Cloue dextra	ρ	21 37½	9 40½	6	4 26 48	9 49 15	3
Quæ est in Service	ε	27 45½	4 59½	6			
Parvula sequens Vindemiaticem	ε	8 25	16 14	6			
Præcedens trium in recta linea Ala Boreæ	σ	10 11	12 40½	5			
Media earundem		14 46	12 34½	6			
Sequens	τ	22 11	13 7½	5			
Quæ est inter quartam & quintam	η	22 56½	2 22½	6			

In Constellatione LIBRÆ.

Lanx Austrina	α	9 31	0 26 B	2	9 24 30	0 27 50 B	2
Quæ est supra lancem Australem	μ	8 42	1 55	5			
Lanx Boreæ	β	13 48	8 35	2	13 42 20	8 37 15	2
Quæ supra Borealem lancem ad Occasum	δ	9 4½	8 18½	4			
Prima ab Austrina lance ad Ortum	γ	12 24½	1 14	5			
Secunda ab eadem lance ad Ortum	ο	16 19	2 58½	6			
Tertia ab eadem lance ad Ortum	γ	19 33	4 28	3			
Quæ est infra hanc ad Ortum	η	21 43½	4 4	4			
Quæ infra eandem ad Occasum	ζ	19 27	2 21	4			
Quæ est infra Boream lancem ad Ortum	ε	15 45	8 7	4			

In Constellatione SCORPII.

Suprema in Fronte	δ	27 36	1 5 B	2	27 30 40	1 7 20 B	3
Media in Fronte	δ	26 59	1 54½ A	3	26 52 50	1 53 12 A	3
Australis trium in Fronte Lucidiorum	π	27 25	5 22½	3	27 15	5 20 0	3
Quæ adhuc magis ad Austrum est, in Pede	ρ	27 43½	8 27½	4			
Borealissima Frontis	ι	29 3½	1 42	4			
Parvula in Δ cum lucida Frontis & quinta	ω	28 7	0 14	5			
Præcedens Cor ad Boream	σ	2 11	3 55 A	4	2 9 20	3 53 15 A	3
In medio Rutikans, Antares seu Cor dicta	α	4 13	4 27	1	4 5 45	4 25 45	1
Quæ Cor sequitur ad Austrum	τ	5 51½	5 50	4	5 46	5 58 30	3
In præcedentibus inferioribus Pedibus	ε	0 46½	6 37½	5			

In Constellatione SAGITTARI.

In Boreali parte Arcus duarum Australior	λ	0 47½	2 0 A	4	0 37 45	2 0 0 A	3
Borealior in eadem parte Arcus	μ	27 41½	2 27½ B	4			
In sinistro Humero	σ	6 51	3 31 A	4	6 42 15	3 19 20	2
Antecedens hanc in jaculo	φ	4 40	3 50	5	4 28 10	3 49 40	3
Trium in Capite præcedens	ε	7 56½	1 44½ B	4			
Media	ο	9 28	0 59	4			
Ultima	π	10 43	1 31	4	10 35 10	1 32 36	3
Prima in contactu	δ	12 44	3 6½	6			
In Boreæ contactu, media	ρ	13 54½	4 17	4			
Sequens & superior	υ	14 11	6 9½	5			
Hæc Orient. duab. obscuris forma Δ subjuncta	ε	19 8½	5 8	6			
Orientalis & ultima in superiori contactu	ζ	22 52½	5 12	6			

In Constellatione SAGITTARIJ.

STELLARUM Denominatio.	Bayer. Clus.	TYCHONIS.		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		S O I I	O I I		S O I I	O I I	
Obscura in inferiori contactu ad Ortum	f	W 19 24	1 25 B	6			
Obscura in dextro cubito	b	16 26	3 8 A	6			

In Constellatione CAPRICORNI.

Borealis trium in Cornu præcedente	ξ	W 28 18	7 2½ B	3	W 28 10 15	7 1 0 B	3
Media	α	28 51	6 53	3			
Australis	β	28 51	4 41	3	28 22 30	4 39 30	3
Nebulosa superius Cornu præcedens		27 8	7 16	6			
Nebulosa Occident. basis Δ in Fronte	π	28 57	0 48½	Neb			
Nebulosa Orientalis	ο	29 41	0 28	Neb			
Suprema in eodem Triangulo	ρ	29 37	1 20	6			
Nebulosa præcedens in Fronte	σ	27 13	0 24	Neb			
In Cervice duarum Borea	τ	29 49	3 25	6			
Australis	υ	2 6	0 15	6			
Præcedens in dextro Genu obscura	↓	1 47	6 58 A	6			
Sequens in sinistro Genu	ω	2 28	9 2	6			
In sinistro Armo	Α	6 13	8 8	6			
Infima in Ventre	ζ	11 24½	6 56	5			
Sequens Borea duarum, -contig. sub Alvo	δ	12 0	6 29	6			
Trium in medio Ventre Orientalior	Φ	9 23	4 25	6			
Infima earum	χ	7 31	4 27	6			
Septentrionalis trium	η	7 18	3 1	5			
Duarum in Dorso anterior	θ	8 21	0 29	5			
Sequens earundem in Dorso	ι	12 7	1 16½	5			
Antecedens duarum ad illa	ε	14 25	4 48	4			
Sequens earundem	κ	16 8	4 49	5			
Duarum lucidarum in Cauda præcedens	γ	16 14	2 26	3	16 4 36	2 29 48 A	3
Sequens	δ	18 0	2 29	3	17 50 50	2 30 24	3
Antecedens in Cauda superiori	λ	18 14	2 22 B	5			
Reliquarum in superiori Cauda Australis	μ	20 27	0 14½ A	5			
Præcedens hanc ad Septentrionem	ν	20 16	0 10	6			
Borea in Extremo Caudæ	ι ad ε	19 54	4 17 B	6			

In Constellatione AQUARIL.

In Capite	d	22 6½	15 23 B	6			
In Humero dextro Clarior	α	27 49½	10 42	3	27 41	10 40 30 A	3
Obscurior & Australior	ο	26 35	9 11½	5			
In Humero sinistro	β	17 51	8 42	3	17 44 30	8 38 0 B	3
Quæ in Dorso sub Axilla	ε	18 38	6 0½	5			
Sequens & inferior, trium in sinistra Manu	γ	10 51	4 50	5			
Media	μ	7 28 30	8 19 0 B	5			
Antecedens lucidior	ε	6 12 0	8 10 0	4			
In Cubito dextro	γ	1 10 0	8 17 30	3	1 3 24	8 14 12 B	3
In dextra Manu Borealis	π	3 4 30	10 31 0	5	2 58 10	10 29 10	3
Reliquarum duarum Aust. præcedens	ζ	3 23 0	8 52 30	4	3 15 0	8 51 6	3
Sequens	η	4 53 0	8 10 0	4	4 45 0	8 8 20	3
In Coryli dextra duarum præcedens	θ	27 45 0	2 46 0	4			
Sequens	ρ	28 31 0	2 29 30	6			
In dextro Femore	σ	29 53 0	1 10 0 A	5			
Quæ est ad Clunes	ι	23 13 0	2 0 0	4			
Australis in dextra Tibia, Scheat	δ	3 22 0	8 10 0	3	3 11 15	8 10 12 A	3
Borea, seu quæ ad Genu est	τ	3 5 0	5 37 0	5	2 55 40	5 38 26	4

In Constellatione AQUARIL.

STELLARUM Denominatio.	Aberratio Chari	TYCHONIS.		Mars distans	PRINC. HASS.		Mars distans
		Longitudo	Latitudo		Longitudo	Latitudo	
		s o ' " o ' "	s o ' " o ' "		s o ' " o ' "	s o ' " o ' "	
In sinistra Coxa	u	29 40 c	5 42 o A	6			
In sinistra Genu duarum Australior	v	26 55 30 c	10 48 30 c	5			
Borealiior	z	29 50 c	9 57 30 c	6			
In Effusione Aquæ a Manu prima	x	3 52 c	4 4 30 B	4			
Succedens Australis	y	6 4 c	0 19 30 A	4			
Sequens in primo flexu Aquæ	z	9 0 c	1 24 0 c	6			
Quæ eam comitatur	a	11 38 c	1 0 0 c	5			
In altero flexu Australi	b	11 33 c	2 49 0 c	5			
Præcedens & Borealiior duarum sequent.	c	10 42 c	3 58 30 c	5			
Sequens & Australior	d	11 11 c	4 10 30 c	5			
Prope hanc, in Austrum declinans	e	11 14 30 c	4 44 0 c	5			
Post hanc duarum contiguarum præcedens	f	14 7 c	10 59 0 c	5			
Sequens	g	14 38 c	11 33 0 c	5			
In tertio Aquæ flexu Borea trium	A	13 3 c	14 29 0 c	5			
Media in tertio Aquæ flexu	2 ad	12 46 c	15 16 30 c	6			
Sequens trium & Australis	5 ad	14 44 c	16 23 0 c	6			
Sequentium trium Borealis	1 ad	7 54 30 c	14 45 0 c	5			
Media trium earundem	2 ad	8 21 c	15 30 0 c	5			
Australis harum trium	4 ad	9 50 c	16 31 0 c	5			
In ultimo flexu trium superior	c	4 25 c	14 25 30 c	5			
media	e	4 2 c	15 40 0 c	5			
Infima proxima, Fomalbant	e	3 17 c	15 53 0 c	5			
Ultima in Effusione, Fomalbant	2 ad	28 11 30 c	11 0 0 c	1	28 9 15 21	0 20 A	1

In Constellatione PISCIIUM.

In Ore Piscis Austrini	e	13 2 c	9 4 0 c	5	12 55 40 c	9 2 36 B	4
Duarum in Occipite Australis	y	15 50 30 c	7 17 30 c	4	15 42 c	7 15 15	4
Borea in Occipite	b	17 30 30 c	8 54 30 c	6			
Præcedens duarum in Dorso	6	19 42 c	9 3 0 c	5	19 34 30 c	9 2 0 c	4
Sequens in Dorso	1	21 56 30 c	7 13 30 c	5	21 55 45 c	7 10 20 c	4
Præcedens in Alvo	1 ad	17 21 c	4 27 0 c	5	17 14 45 c	4 25 12 c	4
Sequens	λ	21 5 c	3 25 0 c	5	20 55 40 c	3 25 0 c	4
In Cauda	ω	27 2 c	6 23 30 c	5	26 54 20 c	6 20 40 c	4
Supra hanc ad Ortum	2 ad	28 27 c	7 27 0 c	6			
Sequens	d	2 29 c	5 28 0 c	6			
In Lino Aufl. Lucidiorum trium præcedens	p	8 36 c	2 11 0 c	4	7 8 27 10 c	2 7 45 c	4
Earundem media	e	11 58 c	1 5 30 c	4	11 50 5 c	1 2 0 c	4
Sequens	z	14 19 c	0 57 30 c	4	14 10 15 c	0 18 48 A	
In flexu Lini duar. exig. anteced. & Boreæ	e	12 25 c	1 31 0 c A	6			
Earundem sequens ad Austrum	f	13 46 c	4 19 30 c	6			
Post flexionem trium præcedens	μ	17 33 c	3 3 0 c	5			
media	ν	19 56 c	4 40 30 c	5			
Sequens & ultima	ξ	21 57 30 c	7 56 0 c	5			
Lucidior in Nexu amborum Linorum	α	23 47 30 c	9 4 30 c	3	23 41 30 c	9 6 45 c	3
In Lino Boreæ a connexu præcedens	o	22 12 c	1 38 30 c	5	22 2 45 c	1 41 10 c	4
Post hanc trium Australis	π	21 16 c	1 51 30 B	5			
Media & lucidior in Nexu Boreæ	η	21 16 c	5 21 0 c	4	21 8 30 c	5 19 24 c	3
Boreæ trium & ultima in Lino	ρ	21 36 30 c	9 24 0 c	5	21 26 15 c	9 19 0 c	4
Boreæ duarum in Ore Piscis Boreæ	σ	22 15 c	22 0 0 c	6			
Australis	τ	22 49 30 c	20 43 0 c	5			
Borealis Trianguli in Capite	1 ad	19 22 30 c	20 55 0 c	6			
Australis ejusdem Trianguli	κ	18 6 30 c	19 24 0 c	6			
Media & antecedens Trianguli	ι	17 3 30 c	20 24 0 c	6			

FIXARUM CATALOGI.

31

In Constellatione PISCIIUM.

STELLARUM Denominatio.	Bayer Class.	TICHONIS.						Magnitudo.	PRINC. HASS.						Magnitudo.
		Longitudo			Latitudo				Longitudo			Latitudo			
		S	O	"	"	"	"		S	O	"	"	"	"	
In Aut. Spi. trium præc. prop. lin. Cub. And.		17	56	30	13	21	0	4	17	46	20	13	17	48	4
media	2 ad	18	2	30	12	21	30								
Infima trium	3 ad	18	9	0	11	21	0	6							
In Alvo duarum Boreæ		23	18	0	17	26	0	5							
Quæ magis ad Austrum		20	58	30	15	30	0	5							
Sequens mediam trium in Australi Spina		18	0	0	12	27	30	5	18	51	50	12	21	30	4
Sequens Boream in Alvo ad Septentrionem		24	11	0	18	31	0	6							
In Occipite Borei Piscis		21	41	0	22	3	0	6							

In Constellatione URSE MINORIS.

In Extremo Caudæ, <i>Polaris</i>	α	23	2	30	66	2	0	2	22	41	1	66	15	2	2
Penultima Caudæ	β	25	36	0	69	50	30	4	25	30	0	69	50	45	4
Quæ in Caudæ Radice	γ	3	24	0	73	50	0	4	2	22	0	73	45	12	4
Superior duarum in □ sequentium	ε	21	29	0	75	0	0	4	21	37	0	75	2	30	4
Earundem inferior	η	24	52	0	77	38	30	5	24	21	0	77	45	0	4
præcedentium	δ	7	16	30	72	51	30	2	6	7	23	52	56	40	3
Earundem inferior	ζ	14	41	0	75	23	30	3	15	32	4	75	12	24	2

In Constellatione URSE MAJORIS.

Quæ in Rostro	α	17	36	30	40	2	30	4	17	15	40	40	12	0	4
Sub Oculo sinistro	π	17	10	0	43	55	30	4							
Contigua sub hac	Α	16	8	0	44	22	0	5							
Supra Oculum dextrum	ρ	18	25	0	47	50	30	4							
sinistram	σ	19	44	30	47	44	30	4							
Ad Arem sinistram	δ	24	42	30	51	36	30	5							
Infima præcedens in parvo Δ Colli	ε	23	50	0	42	30	0	5							
Sequens in eodem Triangulo	β	25	2	0	45	3	0	4	25	2	50	45	6	40	3
Suprema in Apice Triangulo	γ	28	0	0	46	21	30	5							
In Collo, dicto Triangulo succedens	ν	0	38	0	42	36	0	4	0	32	20	42	35	48	3
Sequens infra hanc	φ	3	33	30	48	15	30	4							
In Genu sinistro anteriori	θ	0	32	30	34	34	30	3	1	38	0	34	58	45	3
Duarum in dextro Pede Boreali	ι	25	56	0	29	15	30	3	27	7	0	29	25	12	3
Australior	κ	27	10	0	28	38	0	3	28	13	5	28	57	0	3
Infra Genu dextrum	λ	27	7	0	33	50	0	5							
In dextro Genu	ε	27	26	0	36	6	0	5							
Superior præcedentium in □ Majori	ζ	9	34	0	49	40	0	2	9	24	5	49	40	10	2
Inferior ejusdem □	δ	12	43	30	45	3	30	2	13	39	10	45	6	49	2
Superior sequentium □	θ	25	25	30	51	37	0	2	25	14	12	51	38	50	2
Inferior earundem	χ	24	45	0	47	6	30	2	24	41	0	47	8	45	2
Superior finitri Pedis posteriorum	ψ	13	56	30	29	51	30	4	13	45	45	29	51	40	3
Sequens & Australior	μ	15	4	30	28	45	0	4	15	31	0	28	53	30	3
In Genu præcedentis Pedum posteriorum	ν	22	33	0	35	14	0	4	23	5	40	35	31	0	3
Præcedens duarum in dext. pede posteriori	ξ	0	55	0	26	14	0	4	0	54	20	26	9	15	2
Sequens & Australior	ε	1	36	0	24	54	0	4	1	35	30	24	48	20	3
Antepenultima Caudæ	ζ	3	10	0	54	18	0	2	3	6	45	54	19	0	2
Penultima	η	9	56	30	56	22	0	2	9	52	10	56	24	20	2
Ultima Caudæ	θ	21	12	0	54	25	0	2	21	9	0	54	27	30	2
Infima inter Caudam hujus & Leonis	ι	17	43	30	40	6	0	2							
Alia quæ in Dorso	λ	28	10	0	41	30	0	4							
In sinistro Pede posteriori	ν	21	2	0	33	1	0	5							
Infima inter Urf. & Cap. Leonis	ξ	6	17	0	17	55	0	3							
Alia quæ supra hanc ad Ortum	η	8	10	0	20	42	0	4							

In Constellatione URSE MAJORIS.

STELLARUM Denominatio.	Bayer Claus.	TYCHONIS.						Magnitudo.	PRINC. HASS.						Magnitudo.
		Longitudo			Latitudo				Longitudo			Latitudo			
		S	O	P	N	O	I		S	O	P	N	O	I	
Illa quæ hanc præcedit		♌	5	0	0	20	5	0	B	4					
Sequens duarum ante has			1	57	0	20	51	0		4					
Earum præcedens		♍	29	42	0	23	41	0		4					
Inter extremum Pedem & Cap. Leonis		♌	14	12	0	21	53	0		4					
Sequens Borealis			18	55	0	25	4	0		4					
Australis			19	57	0	24	50	0		3					
Præcedens duarum in basi Oxygonii			23	22	0	21	28	0		3					
Sequens			26	9	0	20	44	0		3					
Tertia Borealis in Oxygonio			25	19	0	24	58	0		4					
Quæ inter crura Ursa		♐	12	16	0	40	30	0		5					
Prima inter Caudam & Corpus		♐	21	29	0	58	8	0		6					
Secunda			23	55	0	47	14	0		6					
Tertia			19	49	0	47	30	0		6					
Prima inter Uram & Cap. Leonis			23	17	0	46	50	0		6					
Secunda		♌	3	53	0	47	55	0		6					
Tertia		♐	6	0	0	48	40	0		6					
Quarta			6	30	0	49	42	0		6					
Quinta			6	19	0	49	42	0		6					
Sexta			19	5	0	49	0	0		6					
Septima			18	1	0	49	27	0		6					
Octava			25	42	0	43	11	0		6					
Nonæ			16	2	0	52	25	0		6					
Parvula quæ contingit coxam		♌	1	41	0	35	40	0		6					

In Constellatione DRACONIS.

Quæ est in Lingua	μ	18	56	30	76	17	0	B	4									
In Ore	γ	4	14	30	78	14	30		4	4	35	40	78	14	40	B	4	3
Duarum Lucidarum in Capite præcedens	β	6	19	30	75	21	0		3		6	19	40	75	24	0		3
Quæ ad Genam	ε	19	3	0	80	21	30		4		19	8	30	80	22	10		4
Sequens Lucid. (Vulgo lucida Cap.)	γ	22	24	0	75	3	30		3		22	29	45	75	1	36		3
In prima Colli inflexione trium Boreali.	δ	21	4	0	81	53	0		5									
Australis	ε	24	31	0	77	57	0		5									
Media earundem	d	20	33	30	79	51	30		5									
Quæ sequitur ad Ortum	o	9	29	0	80	53	30		4									
Quæ est prope secundam flexuram	π	28	33	0	81	51	0		4									
Boreæ □ secundæ flexuræ	δ	12	26	30	82	49	0		3	γ	12	30	82	49	20			4
Boreæ Lateris sequentis	ρ	15	21	0	78	9	30		4									
Australis ejusdem Lateris	ε	27	47	0	79	25	0		3	δ	27	16	0	79	25	0		
Sequentis Trianguli præcedens	ν	15	18	0	83	5	0		4									
Quæ sequitur ad Austrum	τ	19	40	30	80	38	0		4									
Quæ supra hanc	σ	26	44	0	80	54	0		4									
In reliquo Triangulo sequens	ι	6	34	30	84	4	30		4	ε	7	37	20	84	5	0		4
Australis ejusdem	χ	1	28	0	83	28	30		4	δ	10	53	15	83	28	0		3
Præcedens ac Borealis Trianguli	φ	5	31	0	84	48	30		4	η	5	29	20	84	47	50		4
Quæ in flexura nodi tertii	α	29	44	30	81	4	30		3									
Polo Zodiaci proxima	ν	6	26	0	86	53	0		4									
Quæ sequitur	β	28	21	0	83	18	0		5									
Succedens huic	ε	28	22	0	81	41	0		5									
Polo vicinior, mediocriter Lucida	ξ	26	51	30	84	46	0		3	η	26	41	0	84	51	0		3
Præcedens ante penult. & ext. flexione	η	7	55	0	78	23	0		3	ε	8	26	20	78	30	10		3
Antepenultima flexuram præcedens	θ	12	28	30	74	11	30		3	ι	10	51	30	74	28	45		3
Penultima ad flexuram	ι	29	22	0	71	4	0		3	η	29	1	15	71	8	0		3
Quæ flexuram sequitur, secunda	ι	29	17	0	75	18	0		5	β	29	3	0	65	21	50		4

In Constellatione DRACONIS.

STELLARUM Denominatio.	Anter. Pos.	TYCHONIS.		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		S O I " O I "	S O I " O I "		S O I " O I "	S O I " O I "	
Quæ flexuram proxime sequitur	α	210	36	66	36	0	3
Penultima Caudæ	κ	10	26	61	33	0	3
Ultima Caudæ	λ	4	37	57	7	0	3
Inter 11 & Brachium Cephei, inform.	ε	1	4	77	21	30	5

In Constellatione CEPHEI.

In Cingulo	δ	8	13	71	7	0	3
Lucida in Humero	α	7	13	68	54	0	3
Quæ in sinistro Humero	ι	27	52	62	35	0	4
Quæ in Tarsa sequitur ad Boream	ζ	8	29	61	3	0	4
Australis	ε	7	53	59	59	0	4
Quæ versus Ortum	δ	13	39	58	46	0	4
Duarum in flexu Brachii Austral.	η	29	21	71	49	0	4
Borealis	θ	29	54	74	0	30	4
Illa quæ in Humeris	ξ	18	46	65	42	0	5
In dextro Pede	κ	27	33	75	27	0	4
In sinistro Pede	ι	24	23	64	28	0	3

In Constellatione BOOTIS.

In Manu sinistra trium præcedens	κ	24	9	58	53	0	4
secunda	ι	25	33	58	51	0	4
tertia	θ	26	59	60	5	0	4
In Cubito sinistro	λ	1	18	54	47	0	4
In Humero sinistro	γ	13	5	49	33	30	3
In Capite	β	18	43	54	15	30	3
In dextro Humero supra Coronam	δ	27	29	49	1	0	3
Quæ in coxendice sub Brachio dextro	ε	22	29	40	40	0	3
Inferior duarum contiguarum in Dorso	σ	18	16	42	11	0	4
Superior earunden	ρ	17	17	42	35	30	4
Quæ est in crure dextro	ζ	27	26	27	57	0	3
Suprema in tibia sinistra	η	13	42	28	9	0	3
Media	τ	12	25	26	33	0	4
Infima	υ	13	37	25	14	0	4
Infinibris tunica, Arcturus dicta	α	18	39	31	2	30	1
Infima trium inform. circa dextr. Genu	π	26	13	30	27	30	4
Media	ω	27	11	31	22	0	4
Suprema	ε	27	52	33	52	0	4
Præcedens ex quatuor dextræ Manus	ω	28	11	40	14	30	5
Sequens Australis	ε	29	40	40	31	30	5
Borealis	δ	27	53	42	16	0	5
Quæ hanc sequitur	β	29	16	41	55	0	6
Præcedens Aust. duarum in color.	χ	29	34	45	6	0	5
Sequens	μ	1	26	46	52	0	5
Superior in Colorobo	μ	27	32	53	27	30	4
Informis circa hanc	ν	2	35	54	0	0	4
Informis e duabus supra Caput	ι	11	49	60	40	0	6
Secunda ipsarum	ι	12	33	60	57	0	6

In Constellatione CORONÆ BOREALIS.

[illegible]

In Constellatione HERCULIS.

In Capite	α	10	31	0	37	23	0	15	3	10	28	40	37	22	48	B	3
In Humero dextro	β	25	27	30	42	48	0	3	3	25	25	30	42	49	30		3
Penultima dextri Brachii	γ	32	36	0	40	5	30	3									
Infima in dextro Brachio	κ	20	6	30	37	19	0	4		20	3	45	37	19	12		4
In sinistro Humero	λ	9	10	0	47	47	0	3		9	6	0	47	48	45		3
In sinistro Brachio	λ	14	22	0	49	23	0	4									
Præcedens in exuvii <i>Leonis</i>	μ	19	36	0	51	16	30	4									
Sequens in Triangulo exuviarum	ν	27	19	0	52	19	0	4		27	4	45	52	16	30		4
In basi Trianguli ad Boream	ν	23	57	0	53	46	0	4									
Media eorum quæ in exuvii	ξ	33	38	0	52	47	0	4									
Quæ est in coxâ sinistra	θ	26	2	0	53	10	30	3		25	51	20	53	10	24		3
Hæ Orientalior, in Femore sinistro	θ	2	45	30	53	21	0	3									
Præcedens trium Contiguarum in Femore	π	6	21	30	59	38	0	4		6	24	30	59	39	40		3
Media	ρ	7	19	0	60	11	30	4									
Sequens	ρ	9	47	30	60	13	30	4									
In Genu sinistro	θ	22	56	0	60	47	0	3									
Quæ in sinistra fura prope Caput Draco.	θ	14	17	0	69	22	0	3		14	16	0	69	21	50		4
Præcedens trium obscurarum in Pede sinist.	κ	7	5	30	71	20	0	6									
Media Earundem	ξ	11	7	0	71	3	30	6									
Ultima	ξ	18	0	0	71	5	0	6									
In superiori Femore dextro	κ	23	8	30	60	22	30	3									
Borealior in eodem Femore	σ	17	39	0	63	14	0	4									
Quæ est in dextro Genu	τ	8	43	30	65	55	0	4		8	35	10	65	55	40		4
Quæ est in superiori fura	ϕ	5	57	0	63	51	0	4									
Quæ in Crure	ν	2	43	0	64	23	0	4									
Præcedens in dextro Crure	ξ	15	32	0	62	29	0	5									
Quæ in tibia dextri Pedis circa talum	ν	2	28	30	60	15	30	4									
Extrema in dextro Pede	κ	27	6	0	57	15	30	4		26	58	10	57	16	5		4

In Constellatione LYRÆ.

[illegible]

In Constellatione CASSIOPEÆ.

STELLARUM Denominatio.	Bayer Greeks Arabs	TYCHONIS.		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		S O I " O I "	S O I " O I "		S O I " O I "	S O I " O I "	
Penultima Virgæ	γ	26 56	39 15 10 B	6			
Extrema Virgæ		25 54	38 9 0	6			
Infra Scabellum trium præced. Sept.	II	1 46	53 16 0	6			
Sequens Septentrionalis		6 12	53 32 0	6			
Australis		0 11	52 4 0	6			
Quæ supra has versus Polum		6 45	59 8 0	6			
Inter Cass. & Erichth. prima		17 17	35 50 0	6			
secunda		27 19	35 48 0	6			
tertia	⊙	2 33	34 49 0	6			
quarta		3 0	30 22 0	6			
Trium in Boream prima		0 45	44 10 0	6			
secunda		0 57	45 32 0	6			
tertia	II	26 15	45 32 0	6			
Quæ magis in Boream prima versus Ursam	⊙	0 10	54 43 0	6			
secunda	II	27 45	56 15 0	6			
tertia	⊙	4 13	56 55 0	6			
quarta	II	29 53	59 18 0	6			
quinta	⊙	7 54	50 7 0	6			
sexta		10 14	52 4 0	6			
septima		9 37	63 45 0	6			
octava		20 38	63 17 0	6			
Nova Anni 1572	π	6 54	53 45 0				

In Constellatione PERSEI.

In Extrema dextra Manus obvolutione	i	δ 18 31	39 0 30 B	6	δ 18 27	30 40 15 24 B	Ne
In Cubito dextro		23 9	30 37 28 30	4	23 0	20 37 24 30	4
In dextro Humero	γ	24 26	30 34 30 0	3	24 21	34 26 30	4
Quæ in sinistro Humero	δ	19 4	30 31 34 30	4	18 57	50 31 34 40	4
Quæ in Capitis Vertice	τ	21 50	34 26 30	5	21 12	50 34 13 15	4
Quæ in Dorsu est		23 33	30 36 30	4	23 26	40 30 37 40	4
Fulgens in dextro Latere	α	26 17	30 5 0	2	26 22	24 30 2 20	2
Quæ proxime infra sequitur	σ	27 4	30 27 59 0	5			
Hanc sequens parva	↓	28 13	30 27 55 0	5			
Quæ est ad flexuram ejusdem Lateris	δ	29 15	30 27 14 0	3	29 8	40 27 12 54	3
Quæ in Cubito sinistro	κ	22 6	30 26 4 0	4	22 0	30 26 1 36	4
Caput Medusæ live Algol	β	20 37	30 22 22 0	3	20 29	24 22 20 54	2
Quæ sub Algol	ω	20 31	30 20 54 0	5			
Hanc præcedens	ρ	19 18	30 20 33 0	4	19 15	40 20 29 12	4
Præcedens ad Boream in eodem Capite	π	18 20	30 21 35 0	4			
In poplite dextro	II	6 13	30 28 22 30	5			
Quæ dextrum Genu præcedit	λ	4 11	30 28 50 0	4	II 4 3	30 28 48 15	4
Flexuram Genu præcedens	ε	3 55	30 26 11 0	5		3 48 30 26 9 10	4
Media in Genu dextro	μ	5 14	30 26 39 0	4	5 5	40 26 38 20	4
Quæ infra Genu dextrum	d	6 0	30 24 35 0	6			
Quæ est in planta Pedis dextri	e	8 1	30 18 56 0	5	7 53	15 18 55 45	5
Quæ in sinistro Femore	ν	δ 28 11	30 22 6 0	4	δ 28 11	15 22 5 0	4
Quæ in sinistro Genu	ξ	II 0 8	30 19 4 0	3	II 0 0	30 19 1 50	3
In Crure sinistro	ζ	δ 29 23	30 14 53 30	3	δ 29 20	30 14 53 30	3
Quæ in sinistro Genu calcaneo		25 33	30 12 8 0	4	25 29	15 12 6 24	3
Sequens sinistri Pedis	ζ	27 36	30 11 17 30	3	27 26	30 11 15 15	3
Informis supra Caput		26 45	30 42 26 0	5			
Quæ in superiori parte Femoris dextri	A II	2 32	30 29 31 0	5			
Informis præcedens Caput Medusæ	p	δ 16 16	30 20 53 0	4			

In Constellatione PERSEL.

STELLARUM Denominatio.	Superioris Obliq.	TITCHONIS.		Magnitudo.	PRINC. HASS.		Magnitudo.
		Longitudo	Latitudo		Longitudo	Latitudo	
		5 0 1 11 0 1 11	5 0 1 11 0 1 11		5 0 1 11 0 1 11	5 0 1 11 0 1 11	
Quæ fac. lin. rect. cum Polo, & lucid. Persei	II	2 18	0 45 10	6			
Secunda illarum	4	12	0 48 7	6			
Tertia	4	41	0 49 27	6			
Quarta	6	25	0 53 37	6			

In Constellatione AURIGÆ.

Superior & præcedens duarum in Capite	II	23 38	0 32 15	6			
Inferior & Sequens	24	14	0 30 50	4			
In sinistro Humero fulgens, <i>Capella</i>	α	16 16	0 22 51	30	II	16 8 20	22 50 24 B 1
Lucida in dextro Humero	β	25 52	0 21 27	30	2	24 11	0 21 24 15
In dextro Brachio	γ	23 59	0 13 44	0	4	24 13	50 13 42 30
Quæ in sinistro Cubito	δ	13 9	0 20 52	0	4	13 7 45	20 51 20
Præcedens hædus	ε	13 5	30 18 8	30	4	12 53 45	18 8 24
Sequens hædus	π	13 49	30 18 11	30	4	13 41	36 18 14 50
In superiori Pede	ι	11 4	30 10 22	0	4	10 54 50	10 22 36
Superior ad lucidam in dextro Humero	π	24 25	30 22 27	0	5		
Duarum in lumbis Borealis	ρ	16 52	30 18 34	30	6		
Australis	λ	16 6	0 16 59	0	5		
Hæc inferior ad Occalum	μ	14 58	0 15 21	30	5		
Sequens	σ	17 9	0 14 4	0	6		
Ad Nates	ω	12 0	0 15 3	0	5		
Præcedens duarum in dextro Brachio	τ	22 12	30 15 42	30	5		
Sequens	υ	22 24	0 15 43	0	5		
Sub hac in dextro crure	υ	22 35	0 12 49	0	6		
In sinistra tibia	χ	16 39	30 11 15	0	5		
In dextro Pede	χ	18 34	0 8 51	0	5		
Præcedens duarum cir. Erichon.	χ	10 4	30 14 51	0	5		
Sequens Australis	κ	10 31	0 14 2	0	5		
Borealis inform. inter Erich. & pedes II	κ	27 47	0 6 4	0	4		
Secunda	κ	22 58	0 4 6	0	4		
Sub ista ad ortum	κ	23 58	0 2 26	0	4		
Horum præcedens	κ	19 52	30 2 28	0	4		
Ultima omnium	κ	21 55	0 1 6	0	4		

In Constellatione COMÆ BERENICES.

In cuspide primi & Borealis Trianguli	ε	18 17	30 28 25	0	B	3		
Superior contig. hanc ad Austrum sequens	δ	18 42	0 27 23	30	4			
Inferior Earudem	δ	18 46	30 27 20	0	4			
Quæ contigua duas sequitur	ε	19 19	0 27 7	0	4			
Præcedens duarum Austral. contiguarum	ε	18 25	0 25 51	0	4			
Alteræ contigua ad Ortum	ε	18 48	30 26 7	0	4			
Omnium præcedens ad Austrum	δ	18 0	30 23 30	0	4			
Suprema trium contig. sequentium	ε	21 10	0 25 16	0	4			
Alteræ & præcedens	ε	20 51	30 24 56	0	4			
Prima & sequens	ε	22 52	0 24 0	30	4			
Postrema in extensione Comæ	ε	28 58	30 32 46	0	4			
Quæ hanc præcedit	ε	27 49	30 31 41	30	4			
Quæ inter has & prioram in Cuspide	ε	24 17	0 30 16	0	4			
Quæ est in Australi Cuspide Δ parvi	ε	28 15	0 28 32	0	5			

In Constellatione SERPENTARII vel OPHIUCHI.

STELLARUM Denominatio.	Bayeriana.	TYCHONIS		Magnitudo.	PRINC. HASS.		Magnitudo.
		Longitudo	Latitudo		Longitudo	Latitudo	
		s o ' " o ' "	s o ' " o ' "		s o ' " o ' "	s o ' " o ' "	
n Capite	α	16 50	35 57 0	3	16 47 24	35 57 50	3
n dextro Humero	β	19 45	38 1 0	3	19 40 40	38 1 24	3
nferior & sequens in dextro Humero	γ	21 5	36 11 0	3			
precedens in sinistro Humero	ι	4 59 30	32 35 30	4			
equens in eodem Humero	κ	6 16	31 56 0	4	6 12 30	31 58 24	3
que in sinistro Cubito	λ	0 3	32 39 30	4			
n sinistra Manu Borealis	δ	26 44 3	17 19 0	3	26 40 20	17 23 50	3
equens & Australior	ε	27 57	16 30 30	3			
n dextro Ancone	μ	19 3	15 19 0	4			
Australior & precedens in dextri Manu	ν	24 13 30	13 47 0	4			
Borealis & sequens in eadem Manu	τ	25 14 30	15 20 0	5			
n dextro Genu	π	12 24	7 18 0	3	12 17	7 17 30	3
que in sinistro Genu	ρ	3 39	11 30 0	3	3 33 20	11 29 6	3
n dextri tibia	σ	14 23	2 12 0	3			
Quinta infirmium in via lactis	ς	26 31	32 2 30	4			
apra lucidum in collo Serpentis	η	16 48	26 36 30	4			
ost coxas Ophiuchi	θ	14 49	10 21 0	4			
sequentium dextrum Australis	ι	18 57	8 4 0	3			
Borealis	κ	19 48	10 35 0	4			
Illa que supra hunc	λ	18 45	15 18 0	4			
inter sinistram Manum ad Genu Ophiuchi	μ	0 57	12 19 0	5			
infirmis circa humerum Borealem	ν	24 30	27 55 0	4			
Aedia ipsarum	ξ	24 38	26 28 0	4			
Australis trium	ο	24 53	24 50 0	4			
equens trium	π	25 58	26 10 0	4			
precedens 4 in dextro Pede	ρ	14 1	2 16 0	3			
equens	σ	15 42	1 32 0	4			
crus	τ	16 23	0 20 0	4			
Illa sequens	υ	17 12	0 29 0	5			
Illa que contingit calcaneum	φ	17 36	0 58 0	5			
crus dextro	χ	16 50	7 10 0	5			
infirmis extra crus	ψ	21 45	4 20 0	6			
equens duarum in Manu	ω	0 7	23 34 0	5			
coxa Ophiuchi	α	15 0	10 18 0	5			
equens Australis	β	19 2	8 5 0	4			
dextri Manu	γ	20 4	10 40 0	5			
orealis	δ	19 5	15 6 0	5			

In Constellatione SERPENTIS.

precedens in Ore	ι	11 35	38 12 0	5	14 6	37 12 10	4
que in Ore est	ρ	14 24	30 39 6 30	3	17 1	35 25 0	3
que in Temporebus	γ	17 6	30 25 0	3			
eductione Colli	β	14 21	30 34 27 30	3	14 16	34 25 0	3
que ad sinistram Oculum	κ	15 10	37 28 30	4			
que ad Nares	λ	16 32	42 37 0	4	16 26	42 32 48	4
condit in Colla infra Caput	δ	12 46	30 28 58 0	3	12 41	30 28 57 45	3
medio nexu Colli	ε	16 30	35 35 30	2	16 25	35 35 40	3
Australior trium	ν	18 46	30 24 5 30	3			
que est in secunda flexione	μ	20 26	30 16 26 30	4			
interpenultima Caudæ	ζ	24 34	30 19 57 0	3			
ultima	η	0 12	30 20 37 30	3			
Ilium	θ	10 10	32 59 0	3	10 7 48	26 57 20	3

In Constellatione SAGITTÆ.

STELLARUM Denominatio.	Bayer. Class.	TYCHONIS.						Magnitud.	PRINC. HASS.						Magnitud.		
		Longitude			Latitude				Longitude			Latitude.					
		S	O	I	N	O	I		N	S	O	I	N	O		I	N
Superior & Orientalior	α	1	32	0	39	13	0	B	4	1	27	0	39	13	40	B	4
Media seu hanc præcedens	β	27	55	0	38	58	30	5	5	27	48	10	38	57	36	4	4
Parvula quæ est supra mediam	γ	28	31	0	39	31	0	6	6								
Superior duarum contiguar. in Glyphide	δ	25	30	50	38	53	0	4	4	25	28	50	38	50	45	4	4
Inferior Earundem	ε	25	39	0	38	18	0	4	4	25	35	45	38	17	15	4	4
Informis, & infer. supra Sagittam	ζ	0	13	0	42	43	0	4	4								
Superior Informium	η	1	36	0	44	2	0	4	4								
Tertia in exgonio informium	θ	22	57	0	46	3	0	4	4								

In Constellatione AQUILÆ.

Quæ est in Capite	τ	29 28	3027 8 30	B	6	26 49	4026 45 50	B	3
In Colla	δ	26 53	026 49 30	3					
Lucida in Scapulis	α	26 9	029 21 30	2		26 3 30	29 19 51	2	2
Parva quæ supra lucidam	ο	25 33	030 54 30	6					
Quæ in sinistro Humero	γ	25 26	031 18 0	3		25 19 30	31 18 0	3	3
Quæ sequitur parva	π	26 8	03031 59 0	5					
Superior & præcedens in inferiori Ala	μ	21 16	3028 46 30	4					
Inferior & sequens in Ala	σ	22 14	026 35 0	5					
Cauda Vulturis	ζ	14 15	3036 16 30	3		14 11 50	36 16 40	3	3
Quæ proxime Caudam præcedit informis	ε	12 44	037 40 0	3					
Media informium supra Caudam	η	9 12	043 32 30	4					
Septima infor. quæ sc. ex tribus sequitur	θ	9 17	3041 5 0	4					

ANTINOUS.

Manus sinistra	δ	29 21	3018 48 0	3	29 15 30	18 47 0	B	3	3
Latus dextrum	ι	20 17	3020 14 30	3		20 9 30	20 5 0	3	3
Genu	κ	19 17	014 28 0	3					
In dextro Brachio	β	18 1	024 56 0	3		17 56 30	24 53 0	3	3
In Pectore	η	24 50	021 38 0	3		24 46 50	21 35 30	3	3
In Pede dextro	λ	11 46	017 41 0	3					
Præcedens hanc informis	ι	10 29	016 57 0	4					

In Constellatione DELPHINI.

Lucida Caudæ	ε	8 32	029 8 0	B	3	9 26	029 6 50	B	3
Quæ caudam sequitur	ι	9 48	028 52 30	6					
Quæ infra caudam	κ	9 42	027 34 0	6					
In Rhomboide præced. lateris Australior	β	10 56	031 57 30	3		10 41 45	31 58 24	3	3
Ejusdem lateris Borealis	α	11 50	3033 5 0	3		11 43 30	33 3 45	3	3
Sequentis lateris Australior	δ	13 46	3032 0 0	3		12 28 45	32 0 6	3	3
Quæ est in Capite	γ	13 52	032 47 0	3		13 44 10	32 45 40	3	3
Quæ in præced. latere & contiguae anteit	ζ	10 17	032 8 30	5					
Præcedens duarum infima, in Rhomboide	π	9 18	030 41 30	6					
Sequens in Earundem	θ	10 42	030 41 0	6					

In Constellatione EQUULEI.

Præcedens Capitis	α	17 32	3020 12 30	B	4	17 29	020 9 30	B	4
Sequens Capitis	β	19 54	3021 6 0	4					
Præcedens Oris	γ	17 45	025 16 0	4		17 47	025 13 45	4	4
Sequens Oris	δ	18 54	3024 52 0	4		18 48	3024 47 36	4	4

In Constellatione PEGASI.

STELLARUM Denominatio.	Bayeri Char.	TYCHONIS.		Magnitudo.	PRINC. HASS.		Magnitudo.
		Longitudo	Latitudo		Longitudo	Latitudo	
		s o ° ' "	o ° ' "		s o ° ' "	o ° ' "	
Os Pegasi	α	26 22	22 7 30 B	3	26 14 15	22 7 12 B	2
Caput	β	1 15 30	15 25 0	4	1 9 45	15 21 20	3
Quæ ad Austrum in Capite	γ	29 45 30	15 43 0	5			
Inferior & sequens in Juba	δ	13 0 0	14 30 30	6			
Superior & præcedens in Juba	ε	12 44	15 43 30	6			
Lucida Colli	ζ	10 39 30	17 41 0	3	10 29	17 41 6	3
Sequens in Collo	η	12 25	18 29 0	5			
Sinistrum Crus	θ	3 23	26 42 30	4			
Sinistrum Genu	ι	8 50	24 19 0	4	8 45	24 16 30	4
Dextrum Crus	κ	14 3	41 0 30	4	13 56 50	40 58 24	4
Præcedens duarum in Pectore	λ	17 29 30	28 49 0	4	17 25 15	28 47 40	4
Sequens	μ	18 12 30	29 24 30	4	18 45	29 0 0	4
Dextrum Genu	ν	20 10 30	35 7 30	3	20 6	35 5 54	3
In eodem Genu ad Austrum	ξ	19 25	34 24 30	5			
Præcedens duarum in Ala	τ	25 33	25 35 0	6			
Sequens in Ala & Australior	υ	27 6	24 50 30	6			
Prima Alæ Marchab	φ	17 56	19 26 0	2	17 49	19 23 24	2
Eductio cruris, Scheat	χ	23 49 30	31 7 30	2	23 43	31 7 40	2
Extrema Alæ	ψ	3 38	12 35 0	2	3 29 30	12 34 6	2
In Collo Pegasi	ω	6 28	20 51 0	4			
Infra Os, & supra Pedem	α	24 51	23 21 0	4			
Hanc superior	β	28 47	23 11 0	4			
Primum sequens	γ	15 15	23 16 0	4			

In Constellatione ANDROMEDÆ.

Caput	α	8 47	25 42 0 B	2	8 39 15	25 39 48 B	2
Infima in Scapula dextra	β	17 6 30	27 6 30	5	17 1	27 4 45	4
Inferior in sinistro Humero	γ	15 25	23 3 30	4	15 20	22 59 0	4
In dextro Brachio trium Australior	δ	14 58	21 33 0	5	14 46 45	31 32 30	4
Borea	ε	15 45 30	20 30 4	5			
Media	ζ	16 7	22 14 30	5			
Australior, in superiori Manu	η	10 28	40 56 30	4	10 28 10	40 58 48	4
Boreali	θ	11 46	41 44 0	4	11 42 40	41 43 6	4
Obscuri ibidem	ι	14 23	42 8 0	5			
Suprema omnium in Boreali Manu	κ	12 47	43 49 30	4	12 42 40	44 0 0	4
Præced. & sup. duarum in sinist. Brachio	λ	15 9	17 48 0	4	15 25	17 30 0	4
Quæ in sinistro Cubito	μ	16 53 30	15 58 0	5	16 55	15 51 0	3
Australior in Cingulo	ν	24 49	25 59 0	2	24 44 48	25 53 45	3
Media	ξ	24 6 30	33 30 4	4	23 30 40	39 37 6	4
Borea	ο	23 36	22 30 30	4	23 30	22 32 10	4
In Australi Pede Lucida	π	8 39	27 46 30	2	8 33 40	27 44 0	3
Extrema in superiori Pede	ρ	9 6 30	26 49 30	5	8 56 40	26 45 50	4
Lucidior & præcedens in dextro Pede	σ	6 52	25 21 30	4	6 47 15	25 20 0	4
Suprema in sinistra sura	τ	5 6	28 59 0	5			
Inferior	υ	8 23	27 54 30	5			
Quæ ad Genu dextrum	φ	0 56	36 20 0	5			
Quæ est in Extremo Catene annulo	χ	24 0	57 19 0	4	2 11	43 42 24	3
Clarius & superior in sinistra Scapula	ψ	16 19 30	24 20 0	3	15 10 15	24 17 15	3

In Constellatione TRIANGULI.

In Apice Trianguli	α	8 1 19	21 49 30 B	4	8 1 13	21 45 0 B	3
In Basi ad Boream	β	6 49 30	20 33 0	4	6 42	20 29 40	3

In Constellatione TRIANGULI.

STELLARUM Denominatio.	Reverberatio.	TYCHONIS.						Magnitudo.	PRINC. HASS.						Magnitudo.
		Longitudo			Latitudo				Longitudo			Latitudo			
		s	o	''	o	''	'''		s	o	''	o	''	'''	
Media	8	7	59	0	19	39	0	5							
Australior in Basi	8	7	58	0	18	57	0	4	8	7	51	20	18	51	54

In Constellatione CETI.

Quæ in Rostris	λ	8	9	31	0	7	50	0	4						
Lucida Mandibule Ceti	α		8	47	0	12	37	0	2	8	18	38	0	12	39
Media in Ore	γ		3	52	30	12	2	30	3		3	45	30	12	4
Præcedens trium ad Genam	δ		2	2	0	14	32	0	3		1	51	15	14	31
Quæ infra Oculum	ε		1	54	0	5	52	0	4		1	46	15	5	55
Quæ est supra Oculum	μ		6	7	0	5	36	0	4						
In Occipite	π		28	29	30	4	19	0	4						
In Pectore □ præced. Borea	ρ		24	9	0	25	17	0	4						
Durum infer. præceden. ad Austrum	σ		24	31	30	28	21	0	4						
Sequentium in Pectore Australis	τ		28	11	30	28	16	30	4						
Præcedens & Borealis	ι		27	47	30	25	58	0	3						
In Ventre Media	κ		12	25	0	25	1	0	4		12	15	50	25	2
Infima in Ventre	υ		13	30	0	31	4	0	4						
Borea Ventris	φ		16	25	0	20	19	0	3		16	14	15	20	23
Durum lucidior. in Dorso, Orientalior	θ		10	42	30	15	46	30	3		10	31	10	15	49
Occidentalior Earundem	η		6	11	30	16	55	0	3		6	1	30	16	7
Borealis Caudæ	ι		25	23	0	10	1	0	3		25	13	12	10	2
Australis seu lucida Caudæ	β		16	56	0	20	47	0	2		26	51	15	20	48
Lucid. Mandib. ad Ortum sequens infer.	κ		12	45	0	14	30	0	5						
Boream Ventris præcedens ad Austrum	γ		15	4	30	21	55	0	5						
Quæ in recta linea cum III & V Cap.	δ		2	49	30	9	12	30	4						

In Constellatione ORIONIS.

Suprema trium conjunctarum in Capite	λ	18	11	30	13	26	0	4		18	2	12	13	26	36
Occidentalior	φ		18	6	30	13	54	0	5						
Tertia quæ ad Ortum	ψ		18	22	20	14	4	30	5						
Sequens seu lucidus Humerus	α		23	12	0	16	6	0	2		23	5	0	16	6
Sinister, seu præcedens Humerus	γ		15	23	0	16	53	0	2		15	16	30	16	53
Sequens in sinistro Humero	δ		16	47	0	17	22	0	5						
Quæ in dextro Brachio	μ		25	4	30	14	51	0	4						
In dextro ulna	κ		28	30	30	11	30	0	6						
In Manu dextra Australior	ε		27	23	30	9	15	0	4						
Præcedens in dextro Manu	ι		26	21	0	8	44	0	4						
Proxima supreme in dextro Manu	ζ		27	22	0	7	20	30	6						
Suprema & ultima eorum quæ in Manu	η		28	8	30	7	19	0	6						
Præcedens durum in Colobro	1 ad	χ	23	9	0	3	12	30	5						
Sequens Earundem	5 ad	χ	25	21	30	3	21	0	5						
Quæ est infra dext. Humerum ad Occasum	ω		18	56	30	19	17	40	5						
Ex duabus obscuris in dorso sequens			17	40	0	19	35	30	6						
Præcedens Earundem	π		16	45	0	19	52	30	6						
Quæ ex quatuor in dorso præcedit	↓		15	34	0	20	8	30	5						
In clypeo novem Borealisima	1 ad	ο	7	53	0	8	17	0	4						
Secunda	2 ad	ο	8	48	0	9	7	0	4						
Tertia		ε	8	10	0	11	6	0	6						
Quarta	2 ad	π	8	0	30	12	25	30	4						
Quinta	1 ad	π	6	49	0	13	31	30	4						
Sexta			6	22	0	15	27	0	4		6	12	0	15	28

In Constellatione ORIONIS.

STELLARUM Denominatio.	Bayeri Class.	TYCHONIS		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		s o / "	o / "		s o / "	o / "	
Septima	α	11 6 33	16 50 0 A	4	11 6 25 45	16 53 0 A	3
Octava	β	6 58	20 2 0	4	6 48 30	20 6 50	3
Ultima	γ	7 57	20 55 30	4			
Prima Baltei	δ	16 50 30	23 38 0	2	16 41 24	23 37 50	2
Media	ε	17 54	24 33 30	2	17 47 30	24 34 48	2
Ultima	ζ	19 6 30	25 21 20	2	19 0 40	25 22 15	2
Quæ in Manubrio ensis	η	14 37 30	25 36 30	3	14 30 15	25 38 0	3
Suprema trium in ense	1 ad θ	17 28	28 9 30	5	17 26 40	27 50 45	4
Media ensis	θ	17 24 30	28 45 0	3	17 22 50	28 35 0	3
Australis	ι	17 27 30	29 17 0	3	17 19 50	29 17 6	3
Præcedens duarum infra ensen	κ	16 20	30 37 30	4			
Sequens duarum infra ensen	λ	18 23	30 38 0	5			
Lucida in sinistro Pede, Regel	β	11 17	31 11 20	1	11 10 30	31 11 36	1
Quæ in sinistro Calcaneo	τ	12 15 30	29 53 0	4	12 12 15	29 54 40	4
Quæ in fura sinistri Pedis	ε	14 2	31 0 0	5	13 53	30 59 50	4
In Genu dextro	κ	20 49 30	33 8 0	3	20 45	33 8 50	3
Quæ ultimam baltei præced. ad Aust.	σ	18 39	36 0 30	4			
Quæ ad dorsum est, hanc præcedens	μ	14 34	39 40 0	6			
Sequens duarum super manub. ensis	2 ad ρ	14 45	34 6 0	6			
Præcedens	ρ	13 59	33 32 0	5			
In sinistro Latere super hanc	χ	14 57	32 23 0	5			
Sub Brachio & Scuto præcedens	1 ad φ	11 58	30 8 0	4			
Duarum in sinistro latere præcedens	φ	19 45	31 58 0	5			
Sequens	ψ	22 25 30	31 39 0	5			
Post hanc informis		24 10	32 57 0	5			
Superior trium in sinistra Manu		13 36 30	31 45 0	6			
Media	θ	11 33 30	32 2 0	6			
Australis	ι	11 0	34 24 0	6			
Decem inform. supra Orion. præced. Pif. & sequens	Ω	28 44	39 31 0	4			
	Ω	2 43	39 49 0	4			
Supra hanc		2 22	38 4 0	5			
Præced. trium in recta linea Pif. II		1 8	38 47 0	4			
Media		2 58	35 56 30	4			
Borealis		4 50	33 15 0	4			
Infra lineam rectam ad Austrum		2 58	38 24 0	5			
Supra hanc ad Ortum		6 36	34 59 0	5			
Præced. duarum, quæ infra (supra) Canem		7 14 30	30 33 0	4			
Sequens		14 0	32 47 0	4			

In Constellatione ERIDANI.

Quæ ad fin. pedem Orion. in princip. fluvii	λ	11 9 40	31 35 30 A	4	11 9 37 10	27 55 50 A	3
Supra pedem Orionis in fluvio	δ	9 42	37 54 30	3			
Duarum aliarum sequens	χ	7 39	39 52 0	5			
præcedens	ω	5 29 30	27 51 30	5			
Sequens duarum superiorum	μ	3 45 30	25 34 0	4			
Præcedens Eridanum	ν	1 14	35 11 30	4			
Post intervallum sequens ex quatuor	γ	8 18 18	33 13 30	3			
Quæ præit hanc	π	15 22 30	31 9 0	4			
Quæ Septent. est seu, tertis præcedens	δ	15 7	32 46 30	3			
Quæ omnes quatuor antecedit	ι	12 45	37 47 0	3			
Prima coniguarum Ceti	η	3 10	34 34 0	3			
Inter hanc & tertiam	ρ	5 36	32 58 30	4			
Tertia quæ sequitur	ζ	8 16	32 59 0	3			

In Constellatione ERIDANI.

STELLARUM Denominatio.	Rever. Clus.	TYCHONIS.		Magnitud.	PRINC. HASS.		Magnitud.
		Longitudo	Latitudo		Longitudo	Latitudo	
		S O P H O I H	O I H		S O I H O I H	O I H	
Præcedens inferior	A	8 23 49	0 30 25	0 A	5		
Supra hanc	o	23 53	0 27 32	0	4		
Sequens	d	24 58	0 28 9	30	4		
Superior Orientalis	at	27 46	0 25 3	0	5		
Præcedens duarum inter Eridanum & δ		16 25	30 18 26	0	4		
Sequens Australis		20 7	0 22 45	0	4		

In Constellatione LEPORIS.

Superior præcedens Auris	i	11 10 14	30 34 34	0 A	5			
Inferior ejusdem Auris	κ	10 20	30 35 54	0	5			
Superior sequentis Auris	γ	12 27	0 35 18	0	6			
Inferior sequentis Auris	λ	12 14	0 36 14	0	5			
Quæ est in Capite	μ	9 49	0 39 4	0	5	11 9 42 4	39 7 15 A	4
Extrema anteriorum pedum	ε	6 25	30 45 0	0	4	6 21 40	45 1 6	4
Quæ in dorso, seu medio Corpore	α	15 49	30 41 5	30	3	15 42 30	41 7 24	3
In armo sinistro	β	14 6	30 43 57	30	3	14 0 45	43 57 30	3
Australior duarum posterior. Pedibus	γ	19 21	30 45 49	20	3			
Borealius Earundem	δ	21 36	0 44 18	0	3			
Præcedens in Dorso	ρ	20 26	30 38 16	0	4			
Sequens in Dorso	π	23 27	30 37 40	30	4			
Ultima in Cauda	θ	26 22	0 38 26	0	4			

In Constellatione CANIS MAJORIS.

In Ore splendidissima, <i>Sirius vocata</i>	α	8 35	30 39 30	0 A	1	8 30 40	39 30 50 A	1
Quæ in Fronte ad dextram Aures	β	11 1	30 34 50	0	4			
In media Fronte	μ	11 27	0 36 43	0	5			
Quæ sub sinistra Aures	γ	14 6	0 38 2	30	3			
In Collo	ε	12 3	0 39 30	0	4			
In armo dextro anteriorum pedum	γ	6 32	30 42 12	30	5			
Quæ in Extremitate pedis Prioris	β	1 42	30 41 18	30	2	1 32 10	41 17 36	3
Quæ in dorso	o	15 30	30 46 9	30	5	15 23 50	46 11 0	3
Media in Pedore	o	12 36	30 46 39	20	5			
Quæ in Ventre	δ	17 55	0 48 30	0	3	17 47 4	48 27 40	3
In Ventre inter posteriori Femora	ε	15 21	30 51 24	30	3	15 11 20	51 22 0	3
Inferiori dextri pedis Priorum	ι	1 7	0 51 46	30	3	1 50 2	51 23 30	3
Quæ in Cauda	η	24 11	30 51 24	20	3	22 58 10	50 56 6	2

In Constellatione CANIS MINORIS.

In Collo	β	16 39	30 13 33	30 A	3	16 22 10	13 33 0 A	3
In Femore Procyon	α	20 18	30 15 57	0	2	20 11 15	15 56 20	1
Supra Lucidam Colli	γ	16 49	0 12 51	0	6			
Informis supra hanc	o	16 42	30 9 46	0	6			
Sequens ad Caudam Cancri	π	20 57	30 10 19	30	5			

In Constellatione NAVIS.

Quæ in suprema Puppi	ε	5 53	30 43 18	30 A	3	5 48 48	43 15 45 A	3
Suprema Clypei Navis	ε	0 35	30 44 58	30	3	0 29	44 56 36	4
Præcedens Clypei	ε	28 0	0 47 28	0	3	27 44	45 47 24	2
In velo	δ	4 6	30 32 7	0	4			
Informis ad Austrum		4 27	0 38 31	0	4			
In malo trium inferior		12 26	30 32 56	0	6			

In Constellatione NAVIS.																		
STELLARUM Denominatio.	Reper. Chas.	TYCHONIS					PRINC. HASS.											
		Longitudo		Latitudo			Longitudo		Latitudo									
		S	O	I	"	O	I	"	S	O	I	"	O	I	"			
Supra hanc		5	12	51	30	30	18	0	A	4								
Hanc ipsa altior		10	1	30	24	29	30			4								
Duarum in antenna precedens		29	26	0	21	39	30			4								
Sequens		4	30	30	22	29	30			3								
Informis inter velum & laticam		23	44	0	30	30	0			3								
In Constellatione HYDRÆ.																		
Præcedens in Capite	σ	5	39	30	14	37	0			5	5	34	40	14	37	24	A	4
Suprema primam ad Aquilonem	π	6	46	0	14	16	30			4	6	39	36	14	17	0		4
Borealis in Occipite	ε	6	48	0	11	8	0			4	6	41	10	11	8	10		3
Quæ tertiam ad Austrum præit	ρ	7	22	30	11	36	0			5								
Omnium in Capite Orientalior	ν	9	0	30	11	1	0			4								
Quæ in Collo præcedit	ω	11	51	30	11	5	30			6								
Sequens in eductione Colli	θ	14	41	30	13	5	0			4	14	36	20	13	3	50		4
Media Colli, & præced. trium in nexu	τ	20	11	30	15	0	0			5								
Boreis trium in flexu Colli	ι	22	4	0	14	17	30			4	22	0	12	14	15	36		4
Australis in nexu	ι ad	19	53	30	16	46	0			5	19	55	2	16	43	10		4
Lucida Hydræ five Cor	α	21	45	30	22	24	0			1	21	38	3	22	22	45		2
Quæ proxime Cor sequitur	κ	27	12	0	26	33	30			4								
Quæ hanc deinde sequitur	υ	0	9	0	26	12	0			5	0	1	52	26	3	48		3
Præcedens ex duabus contiguis supra hanc	υ	2	48	0	23	13	0			5	2	42	50	23	10	12		4
Sequens Earundem	λ	3	51	0	21	51	0			4	3	43	40	21	59	45		3
Quæ a Corde quinta est	μ	9	31	30	24	38	0			4	9	23	30	24	38	15		3
Quæ in recta cum hanc & sequent.	φ	12	41	30	30	31	0			5								
Cratera proxima præcedens	ι	14	51	0	1	48	30			4	14	43	12	21	47	30		3
Informis, Caput proxime præced.	δ	4	45	30	12	27	0			4	4	39	30	12	25	15		4
Sub basi Crateris, Borealis	δ	23	1	30	25	36	0			4	22	55	36	25	34	45		3
Australis	δ	23	49	0	30	17	0			5								
Sub Cauda Corvi	ζ	21	24	0	13	43	0			3								
Hanc præcedens parvula	ζ	19	24	0	14	37	0			6								
Informis ante Caput Hydræ	ε	28	44	0	10	19	0			3								
In Constellatione CRATERIS.																		
Quæ est in basi Crateris	α	18	13	0	22	41	0	A		4	18	6	20	22	40	30	A	3
Sequens duarum in medio	γ	23	43	0	19	39	0			4	23	35	15	19	36	54		3
Præcedens Earundem	δ	21	10	30	17	25	0			4	21	2	30	17	32	45		3
Præcedens duarum supra Craterem	ε	20	27	0	13	10	0			4								
Earum sequens	θ	23	2	0	11	17	0			4								
Præcedens duarum infor. Pp. 16	ζ	28	30	0	18	10	0			4								
Sequens	η	0	33	0	16	2	0			4								
In medio Cratere	ι	24	55	0	14	9	0			5								
In Constellatione CORVI.																		
Quæ ad Oculum	ε	6	8	0	19	39	0	A		4	6	0	0	19	35	5	A	3
Præcedens duarum superiorum in U	γ	5	13	0	14	25	0			3	5	4	40	14	24	54		3
Sequens Earundem	δ	7	55	0	12	7	0			3	7	47	10	12	4	45		3
Sequens inferiorum in quadrato	θ	11	49	0	17	59	0			3	11	41	50	17	54	24		3
In Rostris	α	6	38	0	21	46	0			4								
In Collo	ζ	8	14	0	18	14	0			5								
In sinistra Ala supra lucidam	π	8	21	30	11	28	0			5								

In Constellatione CENTAURI.

STELLARUM Denominatio.	Bayer-Chab.	TICHONIS					Magnitud.	PRINC. HASS.					Magnitud.	
		Longitudo			Latitudo			Longitudo			Latitudo			
		S	O	"	O	"		S	O	"	O	"		
In Capite de quatuor Australissimis	III	1	27	0	21	49	0	5						
Quæ magis in Boream		0	59	0	19	8	0	5						
Inter mediarum duarum præcedens		0	12	0	20	51	0	5						
Sequens & Reliquæ de quatuor		1	3	0	20	12	0	5						

JOHANNIS HEVELII
 CATALOGUS
 STELLARUM
 FIXARUM

Ad

ANNUM CHRISTI

1660

completum.

In Constellatione ARIETIS.

Ordo Tychon.	STELLARUM Denominatio.	Bayer-Chab.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo.			Mag. Hev.
			O	"	"	O	"	"	S	O	"	O	"	"	
	Ante Collum superior		21	4	47	71	23	38	26	26	55	9	0	41	B 6
	Ante Collum inferior		22	28	39	74	41	38	26	27	15	5	27	3	6
1	Prima Arietis	γ	23	44	33	72	22	0	28	27	3	7	10	2	4
2	Secunda Arietis	β	24	0	1	70	51	28	29	14	27	8	28	45	3
6	In Collo sub Cornu	ι	24	42	23	73	50	20	28	46	17	5	27	33	5
	Supra Vert. inter utrumq; Cornu præced.	λ	24	44	49	68	2	50	0	57	3	10	50	3	6

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In Constellatione ARISTIS.

Ordo Numerus	STELLARUM Denominatio.	Boreo Circulus	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Mag. Hec.
			0	1	2	0	1	2	0	1	2	0	1	2	
17	In Capite Borealis	κ	26	32	37	64	58	53	8	2	28	57	9	14	27 B
3	Lucida in Vertice	α	27	2	25	68	9	0	2	55	4	9	57	43	3
	Supra Lucidam Arietis		27	34	49	65	39	20	4	19	7	12	6	33	4
4	In Capite Media	η	28	27	0	70	23	18	3	22	3	7	24	1	6
5	In Capite Australis	θ	29	48	25	71	40	20	4	7	17	5	44	56	5
7	In Dorso	ι	34	53	41	69	42	53	9	22	57	6	7	20	6
18	In Musca prima	π	35	19	5	64	24	50	11	28	10	10	50	21	5
16	In Ventre	μ	35	49	49	71	28	23	9	25	17	4	0	59	6
19	In Musca secunda	ν	35	54	25	63	44	38	12	12	5	11	17	56	4
	In Pede sinistro		36	24	0	78	3	17	7	59	10	2	23	54 A	6
15	In Pede posteriori praecedens	ο	36	29	13	76	6	59	8	41	25	0	34	57	6
21	In Musca tertia	ξ	36	56	51	62	10	28	13	37	34	12	28	33 B	4
20	In Musca Lucidior, seu quarta	ζ	37	31	59	64	9	33	13	28	20	10	25	46	8
13	In Femore praecedens	σ	37	37	47	74	1	28	10	24	10	1	2	49	6
14	In Pede posteriori sequens	τ	38	14	29	76	18	13	10	14	47	1	18	8 A	6
12	In Femore sequens	ρ	39	18	39	73	19	53	12	9	7	1	12	6 B	6
8	In Educatione Caudae	δ	39	57	7	70	1	8	13	45	4	4	10	0	5
9	Prima Caudae	ε	43	2	57	71	34	10	16	4	58	1	48	45	4
10	Media, seu secunda, Caudae	ζ	43	50	55	70	13	40	17	11	44	2	52	41	5
11	Ultima, seu tertia, Caudae	η	43	25	37	70	5	56	18	39	20	2	34	45	6
	Extrema Caudae, seu quarta	θ	45	49	11	70	28	38	18	54	10	2	6	49	6

In Constellatione TAURI.

4	In Armo dextro infima	ο	46	39	9	82	11	0	8	16	25	54	9	21	33 A	4	
3	Supra hanc	ε	47	12	45	81	27	24	17	10	24	8	48	49	4	4	
2	Quae sequitur	δ	47	58	33	79	50	50	18	20	58	7	28	7	6	6	
1	In Armo dextro suprema	γ	48	3	13	78	14	40	18	51	20	5	56	44	5	5	
42	Quae sequitur tertiam in Armo	β	48	37	7	81	47	43	18	28	18	9	31	0	6	6	
30	In Cuspide Occid. Plejadum	α	51	12	13	66	43	28	24	47	0	4	34	1 B	5	5	
31	Inferiorum praeced. Plejadum	δ	51	14	37	67	1	28	24	42	4	4	6	23	5	5	
5	Inferiorum seq. Plejadum	ε	51	28	53	67	9	3	24	53	0	3	55	46	5	5	
	Lucidam proxime praecedens	ζ	51	30	1	66	41	3	25	0	56	4	22	35	6	6	
32	Lucida Plejadum	η	51	51	25	66	58	0	25	15	51	4	1	18	3	3	
34	In Pede dextro praecedens	θ	51	57	15	85	1	40	20	50	32	3	29	37 A	6	6	
36	In Cuspide Orient. Plejadum	ι	52	17	27	67	1	28	25	38	16	3	52	5 B	6	6	
5	In Palcari praecedens	κ	52	26	35	79	55	10	22	37	15	8	40	22 A	5	5	
	In Tergo supra Plejadas	λ	52	30	45	65	27	26	26	13	7	5	20	17 B	6	6	
6	In Palcari sequens	μ	55	30	41	78	29	0	25	35	29	7	59	31 A	4	4	
24	In Collo praecedens	ν	56	12	19	68	53	12	28	44	4	1	12	39 B	5	5	
8	In Pede dextro sequens	ξ	56	17	55	84	58	22	25	11	12	14	29	14 A	4	4	
43	Virgiliarum media	ο	56	29	25	63	19	33	11	0	13	20	6	34	34 B	5	5
27	Virgiliarum suprema	π	56	31	45	61	56	27	0	34	8	7	55	2	5	5	
26	Virgiliarum infima	ρ	57	37	29	64	25	4	0	59	0	5	16	38	6	6	
7	In Genu dextro	σ	59	16	45	81	58	0	8	28	49	57	12	12	6 A	4	4
25	In Collo sequens ad Genam	τ	59	44	25	70	17	38	11	47	30	0	51	57	6	6	
19	Ad Arem Bor. superior	υ	59	53	25	63	30	48	3	10	34	5	44	58 B	5	5	
11	Succularum prima	φ	60	9	27	75	11	58	1	4	57	5	45	6 A	3	3	
28	Ad Arem Bor. inferior	χ	60	29	45	65	11	28	3	22	34	3	59	47 B	5	5	
12	Succularum sequentium Bor. praeced.	ψ	60	31	29	73	17	4	2	7	31	4	0	59 A	3	4	
23	In Temporibus inferior	ω	61	17	23	68	32	0	3	26	96	0	34	25 B	4	4	
35	In sinist. pop. praeced. vel in fin. Armo inf.	α	61	20	49	81	20	14	1	0	44	11	59	55 A	5	5	
	Succularum sequent. Boreali. sequens	β	61	28	33	75	52	0	2	47	14	3	42	29	6	6	
22	In Temporibus superior	γ	61	31	19	69	1	12	2	45	1	1	2	17 B	5	5	

In Constellatione TAURI.

[illegible]

In Constellatione GEMINORUM.

13	Propus	H	85	54	66	47	19	11	26	13	58	0	14	26	A	4
14	Præcedens in sinistro Pede Castoris	μ	88	36	45	67	27	15	28	43	6	0	57	12	A	4
15	Calx Castoris	μ	90	36	59	67	21	53	30	34	8	0	52	9	A	3
16	In dextro Pede Castoris	ν	92	12	49	69	37	39	2	4	41	3	7	2	A	4
17	Lucidus Pes	ν	94	31	1	73	20	13	4	21	26	6	46	27	A	3
18	Supremum Genu Castoris	ξ	95	43	3	73	35	52	5	9	59	1	59	38	B	3
19	In Extremitate finistri Pedis Pollucis	ε	96	32	25	76	46	53	6	28	4	10	8	23	A	4
3	Sinistra Manus Castoris	δ	97	35	31	55	39	33	6	22	50	11	0	12	B	5
20	Ad Genu dextrum Castoris	θ	97	48	11	67	52	59	7	13	38	1	31	58	A	5
19	Sinister Calcaneus Pollucis	ε	98	53	1	76	24	32	8	45	28	9	39	15	B	6
21	In sinistro Latere Castoris	ω	100	32	45	64	20	26	9	30	18	2	30	7	B	5
11	Sinistrum Genu Pollucis	ς	101	0	53	69	0	6	10	16	56	2	6	48	A	3
	In Flagello Castoris media	ι	102	2	25	50	9	2	9	37	39	16	44	47	B	6
4	Sinistra Scapula Castoris	τ	102	21	51	59	14	14	10	42	3	7	42	59	A	4
13	In Femore Pollucis	λ	104	38	51	72	53	14	14	3	20	5	40	43	λ	4
12	In Flagello Castoris inferior & Aut. Ventre Pollucis	δ	104	49	55	72	37	12	12	7	42	14	24	51	B	6
	In Flagello Castoris superior Borealis	δ	104	57	31	67	27	4	13	47	30	0	14	27	A	4
8	Dextrum Latex Castoris	Α	105	40	55	64	19	45	11	59	44	18	29	53	B	6
5	Humerus dexter Castoris	ι	106	7	59	61	34	29	14	13	0	5	42	51	A	5
24	Parva prope Sclorem	ι	106	49	9	57	33	18	14	20	47	9	46	36	5	5
9	Parva prope Humero dextrum	δ	107	9	21	61	13	8	15	4	19	6	10	2	A	6
1	In dextra Manu Castoris	δ	107	33	45	67	53	45	16	14	8	0	24	51	A	4
1	Castor	α	108	12	1	72	23	57	15	3	19	10	4	22	P	2
26	Ad Podicem Pollucis	κ	108	33	19	73	29	20	17	51	3	5	50	54	A	5
6	Ad dextrum Brachium Castoris	κ	108	44	29	62	22	0	16	36	30	5	12	16	B	5
	In Plumulis Castoris inferior	π	109	3	16	54	29	27	15	59	33	12	54	52	B	6
27	A Tergo Pollucis interna	ς	109	57	39	71	37	25	18	56	50	3	49	20	A	6
23	Parva prope Pollucem	σ	110	29	47	62	19	30	17	52	1	7	26	9	B	5
7	Humerus sinister Pollucis	σ	110	58	27	64	50	19	18	55	23	2	1	40	A	5

In Constellatione GEMINORUM.

Ordo Dictionum	STELLARUM Denominatio.	Refectio	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Magnitudo
			0	1	2	0	1	2	0	1	2	0	1	2	
2	In Plumula Castoris superior	β	111	3	43	52	37	13	17	12	44	13	7	39	6
	Pollux		111	7	5	61	10	20	18	31	44	6	40	29	2
	In Plumula Pollucis		111	23	53	55	45	56	17	57	54	12	3	20	6
28	A Tergo Pollucis media	ε	111	36	17	70	42	30	20	21	35	2	41	45	6
29	Sinistra Manus Pollucis		113	9	53	62	24	5	20	20	33	5	43	51	5
29	A Tergo Pollucis suprema	ζ	113	57	3	69	16	36	22	19	3	0	56	28	6
	In Clava Pollucis inferior		115	50	35	61	17	16	22	40	0	7	13	24	6
	In Clava Pollucis superior	χ	118	3	23	59	22	2	24	15	18	9	17	52	6

In Constellatione CANCRI

5	Ad Extremitatem Caudæ, præcedens	μ	106	33	25	77	38	0	16	25	44	10	11	49	6
	Ad Extremitatem Caudæ, sequens		107	41	53	77	13	15	17	30	43	9	44	14	5
	Extrema Caudæ		111	52	53	78	26	23	21	47	21	10	18	4	6
9	In medio Caudæ	μ	116	30	3	75	55	53	25	51	30	7	5	0	5
8	In ultimo Pede Boreali inferior		116	53	45	67	28	42	24	41	36	1	18	0	5
	In ultimo Pede Boreali superior	ν	117	26	29	63	23	57	24	27	0	5	24	2	7
10	In Radice Caudæ	ζ	118	9	11	71	22	24	26	34	57	2	18	42	4
24	Sub Cauda		119	30	45	79	48	17	29	31	56	10	19	43	3
	In Penultimo Pede Boreali	χ	119	49	53	61	43	4	26	13	7	7	27	31	6
11	Inimis in Dorso & præced.	φ	121	3	3	70	38	50	29	6	39	1	3	48	6
	In medio Pede Borealis		121	32	13	61	58	34	27	45	21	7	30	51	6
	In ultimo Pede Australis		121	53	1	81	19	20	21	10	34	11	19	43	6
3	In Dorso Australis	θ	123	2	15	70	47	50	0	59	30	0	48	36	5
2	In Dorso Borealis		123	13	1	68	27	4	0	38	40	1	30	58	5
	In Latere Boreali, 2d Pedum secund. Bor.	η	124	11	47	64	50	49	0	43	18	5	13	44	6
	In tercio Pede Australis	ι	124	45	35	79	13	20	4	30	14	8	39	4	6
1	Præsepe		125	8	43	69	7	57	2	32	56	1	15	23	6
	In Brachio Boreali inferior Aust.		125	11	1	68	48	49	0	39	5	9	21	26	6
4	Acellus Boreus	δ	125	51	43	67	31	15	2	47	8	3	8	26	4
5	Acellus Austrinus		126	18	41	70	38	0	3	57	47	0	3	5	4
	In secundo Pede Australis	β	126	24	59	78	42	20	5	59	0	7	46	0	6
7	In Brachio Boreali superior	ι	126	29	41	59	59	50	1	34	48	10	25	15	5
12	In Brachio Austrino super. obscura		129	32	49	73	33	12	7	37	17	1	51	49	6
	In Chela Borea		129	34	45	56	26	17	3	15	45	14	31	31	6
6	Brachium Austrinum	α	129	56	39	76	51	3	8	52	58	5	7	19	3
14	In Probosc. Bor. vel potius Oculus Boreali		130	40	55	64	14	50	6	17	19	7	14	24	6
13	In Chela Austrina	κ	132	18	51	77	59	50	11	25	37	5	36	38	5
15	In Probosc. Aust. vel potius Oculus Aust.		132	26	13	66	37	20	8	28	20	5	22	31	6
	Supra Chelam Austrinam	ε	134	41	8	73	40	0	12	26	53	0	43	55	6

In Constellatione LEONIS.

1	In Naribus	κ	136	13	55	62	22	28	10	34	0	10	24	37	4
29	In Drace sinistra Austral. præcedens		137	45	53	79	27	38	16	59	36	5	29	58	5
2	In Hirtu	λ	138	4	17	65	33	8	13	8	8	7	52	15	4
12	In Drace dextra	ε	138	25	35	77	11	54	16	56	20	3	8	44	4
28	In Drace sinistra trium medii		138	27	37	78	47	23	17	26	48	4	39	18	6
	Cap. præ. v. in Cuf. Che. Bor. & v. ad fr. & præ	ζ	138	58	53	57	32	38	11	24	40	15	44	22	6
	In Fronte Leonis	f	140	42	41	58	28	38	13	9	38	15	19	3	6
13	In Drace sinistra trium sequens		140	43	49	78	33	30	19	30	0	3	45	0	4
11	In dextro Armo	δ	141	16	51	74	25	0	18	43	30	0	20	45	5
4	In Capite Australis		141	36	13	64	41	24	15	56	58	9	40	39	3
31	Media parvula Capitis	ε	143	7	17	64	1	24	17	2	53	10	44	52	6

In Constellatione LEONIS.

Ordo Tycho.	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo			Latitudo			Mag. Hæc.
				0	1	2	0	1	2	
3	In Capite Borealis	143 20 55	62 34 54	16	42	32	12	20	0	4
10	Parvarum in Pectore Australis	144 59 55	75 55 50	22	36	55	0	3	38	4
14	In finistro Armo Australis	145 33 49	80 19 20	24	34	47	3	34	32	4
	Ad Geom	145 58 29	66 26 28	20	20	47	9	19	4	5
7	In Collo Australis	147 10 55	71 36 25	23	9	38	4	49	57	3
9	In finistro Armo Borealis	147 27 49	78 21 0	25	40	53	1	25	6	5
8	Regulus	147 32 25	76 21 28	25	6	0	0	28	45	1
5	In Collo Borealis	149 26 27	64 53 20	22	49	15	11	51	43	3
	In Pectore Borealis sequens	149 44 0	74 39 10	26	30	0	2	48	2	6
6	Lucida Colli	150 17 47	68 26 53	24	50	0	2	48	14	2
	In imo Ventre præcedens	152 10 47	72 26 18	10	29	20	0	51	13	4
15	In imo Ventre Borealis	153 44 25	72 55 15	1	39	40	0	9	27	6
34	Supra Dorsum prima	155 13 1	63 2 50	28	44	47	13	56	46	5
30	In medio Corpore suprema	157 0 25	69 19 48	1	4	37	10	14	59	6
17	In medio Corpore media	157 5 37	74 0 26	2	54	20	5	56	12	6
18	In medio Corpore infima	157 51 15	77 39 11	4	56	35	2	49	15	6
	Inter Pedes posteriores præcedens	159 5 31	90 42 22	10	49	0	8	28	55	5
35	Supra Dorsum secunda	159 17 25	63 25 30	0	45	20	16	30	27	5
40	Ad dextrum Genu Australis	160 44 55	84 32 12	10	10	5	2	29	53	5
39	Ad dextrum Genu media	160 45 3	82 4 23	9	14	27	0	12	36	5
19	In Dorso præcedens lucida	160 59 35	68 1 0	4	4	15	12	52	33	5
	Inter Pedes posteriores sequens	161 6 11	90 39 42	12	25	54	7	6	13	6
38	Ad dextrum Genu Borealis	161 51 17	80 48 32	9	46	24	1	22	3	4
20	Lucida Dorfi	163 59 57	67 26 28	6	32	25	14	20	25	3
21	In Coxa vel Coxendice	164 5 53	72 43 12	8	41	0	9	40	32	3
36	Supra Dorsum tertia	164 14 37	65 2 15	5	41	20	16	47	14	5
22	In finistro Femore Borealis	164 35 49	74 50 6	9	47	44	7	54	45	6
32	In finistro Pede præcedens	164 50 25	91 46 57	16	44	34	7	37	46	4
24	In finistro Femore Australis	165 54 57	82 4 28	13	53	11	1	44	13	4
23	In finistro Femore media	166 32 9	77 25 15	12	48	7	6	6	51	4
25	Ad finistrum Genu	167 37 1	85 16 43	16	46	10	0	33	35	4
33	In finistro Pede media	168 14 17	91 6 42	19	37	36	5	41	10	5
	Suprema seu secunda Caudæ	169 26 51	60 20 38	8	15	0	23	1	57	6
26	In finistro Pede seq. Borealis	169 53 1	88 56 22	20	17	24	3	2	30	4
	Caudæ Antepenultima	170 46 55	66 44 53	12	7	52	17	39	31	5
37	Penultima Caudæ	172 36 5	67 34 0	14	13	45	17	18	7	5
27	Cauda	172 55 45	73 30 22	16	53	51	12	18	55	2
	Prima Caudæ in eductione	174 31 33	72 27 38	17	53	40	13	52	31	6

In Constellatione VIRGINIS.

1	In Vert. Borealis duar. contiguar. præced.	171 54 43	79 52 0	18	34	0	6	5	33	B	5
2	In Vertice Australis	172 5 31	81 33 8	19	24	0	4	36	54	3	3
	In Vert. duar. contiguar. sequens	172 35 57	79 52 28	19	11	30	6	21	10	6	6
5	In Ancone Alæ Austrine	173 14 25	86 19 38	22	20	15	0	41	0	3	3
33	In Cervice	175 36 13	84 27 0	23	45	20	3	23	23	5	5
4	In Genu	175 51 52	81 27 42	22	48	30	6	11	10	3	3
	In dextra Manu Virginis	176 48 55	67 37 11	17	51	0	19	11	36	6	6
3	Ad Mentum	176 56 17	79 22 0	22	55	30	8	31	34	5	5
	In ancone Alæ dextræ Australis	178 59 11	77 51 33	24	9	40	10	42	50	3	3
	In ancone Alæ dextræ Borealis	179 40 49	73 11 8	22	46	20	15	13	44	5	5
28	Parva inter Humeros	180 37 21	95 3 47	28	32	47	4	53	25	6	6
6	Secunda Alæ Austrine	180 39 13	88 45 22	0	6	15	1	22	56	3	3

In Constellatione VIRGINIS.

Ordo	Stellarum Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Magnitudo
		0 1 2	0 1 2	0 1 2	0 1 2	
34	In Brachio dextro	180 54 3	70 18 33	21 6	17 39 25 B	5
7	Sub Manu sinistra præcedens	185 27 45	96 5 28	7 25 45	3 24 48 A	5
7	In sinistro latere	186 7 42	89 32 33	5 26	2 51 26 B	3
26	In Ala Bor. infima, seu quar. Aufl.	186 8 3	81 18 28	2 8	10 24 38	6
11	In Ala Bor. præced. prima	186 10 59	77 31 13	0 43 30	13 35 15	5
12	In Ala Bor. media, seu tertia	187 7 51	80 25 48	2 41	11 36 35	5
	In Ala Borealis, secunda	187 15 39	78 35 28	2 3	13 40 32	6 7
35	Sub Manu sinistra media	189 10 17	97 41 0	11 27	3 25 4 A	5
10	In Dorso, seu in Cingulo	189 37 25	84 44 22	6 44 38	8 39 15 B	3
8	Ala Aufl. antepenultima	190 35 45	92 3 8	10 32 30	2 19 5	6
13	Vindemiatrix	191 20 17	77 11 6	5 13 20	16 15 3	3
26	Sub Manu sinistra sequens	192 32 17	98 53 17	14 59 37	2 12 57 A	5
9	Ala Aufl. penultima	193 7 47	93 40 40	13 30 34	1 48 33 B	4
37	Sub Spica præcedens	193 32 21	104 12 22	18 3	7 50 20 A	5
29	Quæ proxime sequitur Vindemiatricem	195 2 9	78 47 0	9 20 15	16 15 8 B	6
30	Ala Bor. antepenultima	195 9 41	82 42 0	11 3 50	12 42 27	5
38	Ad Caudam Corvi infima	195 11 29	106 22 0	20 19 27	9 5 51 A	5
14	Spica Virginis	196 49 53	99 20 25	19 5	1 59 55	1
39	Sub Spica sequens	197 27 3	104 9 42	21 29 32	6 13 20	5
16	Ala Aufl. extrema	198 36 23	94 27 56	18 51 36	3 10 49 B	6
18	In sinistro Genu Australi.	198 49 21	98 23 16	20 32 27	0 22 14 A	6
31	Ala Bor. penultima	199 16 37	84 33 57	15 40 7	12 35 13 B	6
15	Sub Perez, seu, in media Tun. sub Cingulo	199 21 21	88 48 0	17 23 47	8 42 22	3
17	In sinistro Genu Boreali.	201 4 45	96 56 42	22 4 30	1 48 20	6
27	In dextro Poplite	204 18 21	89 45 56	22 24 56	9 40 0	6
19	In sinistra sura	205 13 33	97 36 12	26 8 45	2 42 38	6
22	Ala Bor. ultima	206 8 29	86 46 33	23 1	6 12 7 13	5
	In ima Tun. inf. Eclipt. & finist. Ped. Bor.	208 5 29	104 37 26	1 16 37	2 51 15 A	6
22	In ima Tunica Australis	208 42 3	98 38 26	29 44 3	2 57 27 B	4
	Ad Cuf. Ala Borealis, in Monte Manalo	208 50 25	96 6 50	25 21 55	14 43 12	5
	In ima Tun. inf. Eclipt. & fin. Ped. Aufl.	209 25 47	106 34 0	3 10 10	4 13 20	6
21	In ima Tunica Borealis	209 33 21	94 19 56	29 1	7 17 25	4
24	In sinistro Calcaneo	210 11 37	101 43 16	2 11 3	0 34 48	4
20	In dextra Tibia præcedens	210 34 15	90 40 56	28 41 17	11 3 52	5
23	In dextra Tibia sequens	212 40 7	90 38 56	0 41	11 49 23	4
25	In dextro Calcaneo	216 16 7	94 7 25	5 19 3	9 45 7	4
	In Extremitate dextri Pedis	218 20 51	90 49 24	6 13 52	13 32 50	5
	Infra Pedem dextrum	219 55 25	87 6 0	8 26 35	12 4 43	5

In Constellatione LIBRÆ:

2	Lance Austrinum præced. Borealis	217 40 41	102 40 16	9 24 12	2 0 9 6	5
	Quæ Lanci Aufl. adheret a parte super	217 59 58	104 28 27	10 16	0 29 30	
	seq. non nisi Tub. vis.					
1	Lance Austrina	218 3 23	104 32 28	10 20 3	0 26 38	2
	Sub Sca. vel Jugo Lanc. Occ. Nebul. media	219 26 35	99 16 27	9 58 56	5 52 16	7
4	In Jugo præcedens	220 40 57	97 7 24	10 29 50	8 17 43	5
5	Lance Austrinum sequens	221 53 47	104 51 0	13 58 16	1 17 4	5
18	Sub Loricibus præcedens vel in Chela	223 12 35	108 27 19	16 13 20	1 45 38 A	3
3	Centrum Libræ	224 42 7	98 3 41	14 37 28	8 34 47 B	24
6	Ad superiorem Limbum præcedens	225 27 56	104 0 15	17 4 16	2 58 49	6
10	In Jugo sequens	226 30 19	99 1 52	16 37 44	8 9 34	4
	Sub Lance Orient. seq. sub Eclipt. super.	228 20 47	108 26 35	20 54 45	0 25 30 A	6
	Sub Lance Orient. ad Eclipt. inferior.	228 29 55	108 44 50	21 4 13	0 41 42	6

In Constellatione LIBRÆ.

Ordo Tycho	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.			Longitudo				Latitudo				Mag. Hrv.
			0	1	2	0	1	2	0	1	2			
9	In medio Lanceis Orientalis	228 28 51	105	36	40	11	26	17	7	2	20	3 B	6	
	Supra Jugum duarum Australis	228 53 43	98	49	50	18	52	28	8	59	11	5	5	
	Supra Jugum duarum Borealis	229 1 55	97	57	30	18	46	17	9	51	55	5	5	
7	In superiori Limbo media	229 7 55	103	33	50	20	21	23	4	28	53	6	6	
8	In superiori Limbo ultima	231 1 15	104	30	20	22	22	28	4	2	39	6	6	
13	Post Lanceas, Tycho, fecun. mihi prima	233 36 1	105	38	0	25	4	14	3	33	21	4	4	
14	Post Lanceas tertia, mihi secunda	234 46 13	103	12	49	25	36	27	6	10	25	4	4	
15	Post Lanceas suprema vel quar. mihi terti	236 25 25	100	22	49	26	32	52	9	18	3	4	4	

In Constellatione SCORPII.

	In Chela Austrina	221 3 9	113	51	26	11	55	0	7	32	47	A	3
	In Cuspide quarti Pedis Australis	224 13 38	118	43	15	20	11	57	11	24	33	5	4
	In secundo Pede Australi	229 6 26	116	57	10	23	50	51	8	25	41	4	4
	In tertio Pede, seu medio Aust.	229 26 44	118	32	53	24	34	1	9	54	27	4	4
12	Ad Rostrum	233 23 35	109	3	53	25	41	42	0	10	34	15	4
4	In Austrino Pede medio	233 55 57	118	6	6	28	19	26	8	30	12	A	4
3	Inima Frontis	234 35 57	115	1	25	28	10	55	5	21	16	3	3
2	Media Frontis	235 4 13	111	33	7	27	48	11	1	52	93	3	3
1	Suprema Frontis	236 25 45	108	46	50	28	25	25	1	6	41	F	2
	Pro. sup. Fr. dua. Aust. inf. adh. alteri, non nisi Tubo Visib. ex Ocul. stabilita	236 42 35	109	42	31	28	53	12	0	15	49		
6	Pro. sup. Fr. Aust. dua. cont. sup. major	236 46 1	109	39	38	28	57	12	0	22	49	5	5
10	In Austrino latere	237 34 6	116	42	46	1	10	46	6	24	11	A	5
5	Prope suprem. Fronte borealis	238 2 51	108	28	3	29	51	16	1	44	53	B	4
16	In Chela borea	238 19 9	99	7	14	28	7	11	0	46	18	5	5
7	Præcordium	240 6 17	114	39	23	2	52	49	3	55	6	A	4
	Supra Præcordium	241 17 21	112	33	25	3	39	8	1	38	51	6	6
8	Cor	242 8 0	115	33	58	4	53	48	4	27	19	1	1
	Quæ supra Cor	242 24 55	114	15	31	4	59	17	3	7	23	5	6
9	Venter, vel in Tergo	243 39 55	117	23	37	6	40	8	6	0	4	4	4
	In medio Pede boreal.	245 24 39	106	58	18	6	28	11	4	32	22	B	6

In Constellatione SAGITTARII.

2	In Boreali Arcu superior	268 27 0	111 21 20	28 33 17	2 8 31 B	4	
	Sinistra Manus	270 14 18	119 47 30	29 47 31	6 17 11 A	3	
1	In Boreali Arcu inferior	271 48 17	115 28 56	W 1 37 49	1 52 15	4	
4	In incipio Sagittæ	276 11 23	117 13 32		5 30 51	5	
3	Sinister Humerus	278 33 0	116 35 27		7 39 9	3 18 45	4
5	In Capite prima, seu sub Oculo	279 22 15	111 25 45		8 43 20	1 47 28 B	4
	Ad Mentum	279 35 3	112 18 54		8 51 42	0 53 44	6
20	In sinistro latere	280 10 33	120 3 36		8 1 34	6 52 3 A	3
6	In Capite media, vel ad Genam	281 6 35	112 7 48		10 17 3	0 58 44 B	4
19	Sub sinistra Axilla	281 25 45	118 2 34		10 6 36	4 56 20 A	4
7	In Capite ultima, vel in Service	282 23 53	111 26 54		11 31 54	1 33 40	4
8	In præcedente Fascia Australis	284 23 34	109 21 33		12 45 10	3 27 7	6
18	In Dorso	284 51 58	116 3 21		13 20 51	3 14 18 A	5
10	In præcedente Fascia Borealis	285 35 15	106 27 56		15 1 27	6 13 44 B	5
9	In præcedente Fascia media	285 29 23	108 22 19		14 43 27	4 20 34	4
	In dextro Homero	286 19 51	114 38 47		14 46 42	2 18 36 A	6
14	In dextro Cubito	289 7 37	115 28 25		17 13 35	3 6 27	6
11	In sequente Fascia præcedens	290 28 9	106 7 20		19 44 34	3 59 16 B	6
12	In sequente Fascia intima	292 27 25	110 26 23		20 12 31	1 32 28	6

In Constellatione SAGITTARII.

Ordo	STELLARUM Denominatio.	Ascensio Recla	Distansia a Polo B	Longitudo	Latitudo	Me- Heli-
Thybris		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
14	In sequente Fascia sequens	294 38 43	106 15 50	23 42 7	5 13 46 B	6
26	In educatione Caudæ sequens	294 57 59	118 4 7	22 0 47	6 27 25 A	5
29	In educatione Caudæ ultima & Aust.	295 39 12	118 55 23	22 27 53	7 24 5	5

In Constellatione CAPRICORNI.

4	Ad Cornu Bor. præcedens	298 23 38	103 2 22	27 52 31	7 45 11 B	6
	In Cornu Boreali duar. contiguar. Occiden.	299 39 51	103 26 1	29 1 8	7 7 34	4
1	In Cornu Boreali trium media	299 46 13	103 29 23	29 6 42	7 3 3	3
8	Nebulosa in Fronte	300 2 53	110 1 53	28 3 50	0 35 11	Neb
2	Trium contig. in Cornu Bor. Orientalis	300 26 55	103 40 36	29 43 27	6 44 3	6
3	In Cornu Australi	300 27 31	105 45 23	29 18 31	4 41 37	3
5	Nebulosa ad Oculum præcedens	301 59 55	109 11 30	0 2 4	1 1 51	Neb
7	Supra Nebulosas ad Oculum	302 25 31	108 48 58	0 30 30	1 18 44	6
6	Nebulosa sequens	302 35 9	109 36 0	0 29 17	0 30 52	Neb
9	In Cervice Boreali. sub Aure	303 5 9	106 2 50	3 36 0	3 26 56	6
10	In Cervice Australis	305 18 19	109 11 20	3 4 53	0 20 35	6
11	Genu dextrum	306 27 21	116 23 15	2 25 28	6 54 13 A	5
12	Genu sinistrum	307 54 5	118 6 0	3 15 43	8 52 39	6
18	In Pectore Boreali	311 14 11	111 5 4	8 0 33	2 52 6	5
19	In Dorso præcedens	311 40 55	108 28 37	9 6 17	0 27 54	5
13	In sinistro Armo	311 48 39	116 13 8	7 9 0	7 57 32	6
17	In Pectore Australi	312 16 15	112 27 34	8 34 22	4 27 0	6
16	In Latere	314 28 57	111 57 38	10 41 7	4 31 56	6
20	In Dorso sequens	315 48 3	108 10 11	12 56 50	1 14 51	5
15	In Ventre contigua Borealis	316 40 9	113 12 43	12 16 0	6 18 32	6
14	In Ventre Australis	316 45 57	113 47 23	12 10 58	6 53 13	5
21	Ad ilia præcedens	319 28 19	110 53 41	15 27 14	4 52 21	4
23	Caudæ præcedens	320 17 13	108 4 50	17 2 53	2 25 38	3 4
	In Cauda antepenultima	320 43 11	105 27 48	18 19 25	0 5 24	6
22	Ad ilia sequens	320 50 55	110 19 20	16 51 42	4 43 27	5
28	Extrema Caudæ	321 42 21	100 33 33	20 41 20	4 17 51 B	6
24	Caudæ Sequens	322 2 27	107 33 43	18 47 53	2 27 10 A	3
25	Penultima Caudæ	322 5 21	102 49 53	20 19 55	2 1 41 B	5
26	In Cauda omnium Orientalior	323 39 39	105 3 18	21 4 13	0 34 15 A	5

In Constellatione AQUARII.

8	In Fascia Manus sinist. præcedens	307 21 39	100 39 33	7 2 45	8 9 32 B	4
7	In Fascia Manus sinist. sequens	308 35 32	100 10 33	8 21 10	8 19 38	5
6	Manus sinistra	312 43 41	102 38 54	11 38 32	4 52 45	5
4	Humerus sinister	318 24 41	96 59 16	18 40 38	8 41 50	3
5	Sub Axilla sinistra	319 54 49	99 19 8	19 23 25	6 1 28	5
1	In Capite superior	320 33 47	89 11 53	23 14 25	15 26 9	6
	In Capite ad Aures inferior	321 19 49	90 13 0	23 47 53	14 38 8	6
	Ad Oculum	322 35 1	88 48 23	25 22 0	15 8 50	6
3	Sub dextro Humero	326 25 15	93 43 3	27 22 40	9 14 55	5
16	In Podice	327 0 21	105 25 53	23 59 48	1 59 9	4
2	Humerus dexter	327 4 27	91 54 29	28 37 53	10 43 36	3
	Supra Podicem & clunem	328 7 7	103 8 53	25 46 50	0 11 56 A	6
	In Clune dextro	329 38 1	104 26 44	26 43 10	1 55 15	7
13	In dextro latere præcedens	329 42 29	99 24 18	28 31 30	2 47 13 B	4
14	In dextro latere sequens	330 33 11	99 27 33	29 17 13	2 26 53	5 6
9	In dextro Lacro	331 1 23	93 1 40	31 59 30	8 18 31	3

In Constellatione AQUARII.

Ordo System.	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Mag. Hen.
		0 1 2	0 1 2	0 1 2	0 1 2	
10	In Pollice dextræ Manus	332 4 23	90 6 48	4 2 0	10 39 34	5
11	In Carpo dextræ Manus	332 50 53	91 41 26	4 11 45	8 34 34	4
15	In dextro Femore	333 8 57	102 19 18	0 40 17	1 7 45	5
20	In sinistro Genu præcedens	334 1 17	112 20 39	27 49 37	10 47 13	5
13	In Vola dextræ Manus	334 29 25	91 48 0	5 42 10	8 12 49	5
22	Prima in effusione Aquæ	335 2 51	95 54 48	4 43 15	4 10 47	5
	In Capite Pisc. Maj. ultima, ad Fomah.	335 23 47	118 42 38	26 22 53	16 44 54	4
21	In sinistro Genu sequens	336 46 15	110 29 23	0 56 17	0 0 0	6
18	In dextro Poplite	337 52 21	105 18 8	3 31 45	5 34 19	5
23	In flexu primo præcedens	338 43 45	99 19 49	6 51 40	0 20 11	4
17	In dextra Tibia, alias Schest	339 7 33	107 32 43	4 8 5	8 5 18	3
41	Fomahandr	339 38 15	121 19 57	29 3 53	20 59 46	1
24	In flexu primo media	341 51 9	99 28 18	9 40 10	1 37 35	6
40	In ultimo flexu infima	342 41 23	115 29 30	4 7 40	16 42 43	5
38	In ultimo flexu suprema	342 24 21	112 56 15	5 43 0	14 37 36	5
39	In ultimo flexu media	343 34 33	114 18 30	5 25 42	15 51 15	5
25	In flexu primo sequens ultima	344 11 15	97 49 30	12 25 42	0 59 5	5
27	Post flex. 1. secundæ tria. cont. præced.	344 31 11	100 53 38	11 32 53	3 56 32	5
26	Post flexum primum proxima	344 49 11	99 30 33	12 21 24	2 46 43	6
28	Post flexum primum tertia	345 2 17	100 58 0	11 59 30	4 12 25	5
	Intra dext. Pedem & aquam superior	345 18 23	105 12 53	10 34 38	8 13 24	6
29	Post flexum primum quarta	345 21 23	101 24 40	12 6 36	4 44 17	5
	Intra dextrum Pedem & aquam inferior	346 11 29	106 48 0	10 44 22	10 0 54	6
35	Post secundum flexum Borealis	346 51 1	111 51 55	9 15 38	14 54 31	5
36	Post secundum flexum media	347 10 47	112 25 30	9 19 5	15 32 43	5
37	Post secundum flexum infima	349 29 9	112 47 40	11 13 48	16 39 28	5
30	Ante flexum secundum Borealis	350 33 27	106 1 15	14 57 53	10 57 31	5
31	Ante flexum secundum Australis	351 17 25	106 20 30	15 29 38	11 32 29	5
32	In secundo flexu Borealis	351 38 35	109 37 55	14 26 8	14 41 5	5
33	In sec. fle. med. vel pot. med. inf. cum duæ ad.	352 35 15	110 24 35	14 56 8	15 50 41	6
34	In secundo flexu sequens Australis	354 2 31	110 42 50	16 6 51	16 36 0	6

In Constellatione PISCIIUM.

1	In Ore Piscis Austrini	341 39 27	87 56 36	13 53 0	9 6 30	5
	Sub Ore Piscis Austrini	342 47 51	89 39 39	14 16 53	7 5 14	6
2	Australis in Capite Piscis Austrini	344 53 17	88 32 8	16 39 34	7 19 9	4
3	Borealis in Capite Piscis Austrini	345 43 41	86 25 44	18 16 30	8 36 22	5
6	Præcedens in Ventre Piscis Austrini	347 22 21	90 33 14	18 10 20	9 29 47	5
4	Præcedens in Tergo Piscis Austrini	347 41 19	85 26 21	20 29 24	9 4 19	5
5	Sequens in Tergo Piscis Austrini	350 38 0	86 12 2	22 54 50	7 12 40	5
7	Sequens in Ventre Piscis Austrini	351 13 39	90 6 18	21 54 36	3 23 27	5
8	Australis in Cauda Piscis Austrini	355 27 49	84 59 13	27 30 30	6 24 15	5
9	Borealis in Cauda Piscis Austrini	356 17 31	83 24 0	29 16 0	7 31 56	5
10	In Lino Austrino prima	4 49 17	83 42 23	3 15 0	5 26 58	6
	secunda	4 1 45	84 52 44	5 44 0	3 5 36	6
	tertia	7 48 1	84 15 0	9 25 45	2 10 48	4
11	Præcedens in Capite Piscis Borei	7 38 15	64 5 34	17 57 7	20 32 32	6
27	Sequentium Australis	9 32 37	64 33 34	19 7 5	19 31 20	6
12	In Dorso omnium suprema	9 43 48	68 25 46	17 37 42	15 55 0	4
26	Sequent. in Capite Boreali, seu in Oculo	9 55 21	62 53 56	20 11 12	20 32 35	6
36	In Ore Piscis Borei	11 7 25	59 59 53	22 32 0	4 21 6	6
13	In Lino Austrino quarta	11 22 11	83 34 44	12 50 0	1 5 39	4
29	In Dorso media	11 54 43	70 19 54	18 43 54	13 21 33	5

In Constellatione PISCIIUM.

Ordo	Stellarum Denominatio.	Aspex	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Mag. Helioc.
			0	1	2	0	1	2	0	1	2	0	1	2	
30	In Dorso inferiorum præcedens	δ	12	20	15	71	0	44	118	30	0	12	34	43	B 6
14	In Lino Austriana sexta	ε	12	43	39	86	9	0	13	9	26	1	38	35	A 5
21	In educatione Caudæ	δ	12	57	55	72	7	34	18	56	18	11	19	14	B 6
25	Australis in Mandibula Piscis Borei	γ	13	18	0	61	41	34	23	38	0	20	44	5	5
34	In Dorso inferiorum sequens	ζ	13	21	53	70	43	44	19	51	33	12	27	15	5
24	Borealis in Mandibula Piscis Borei	ε	13	24	9	60	21	14	24	19	0	21	55	0	6
13	In Ventre ipsius præcedens	φ	13	52	1	67	12	0	21	45	25	13	29	54	5
13	In Lino Austriaco quinta	ψ	14	1	45	84	12	14	15	9	15	0	12	17	A 4
15	In Lino Austriaco septima	φ	15	4	19	88	9	4	14	35	26	4	15	0	6
32	In Ventre media	ν	15	15	25	64	30	34	24	5	40	17	27	11	B 5
35	In Ventre suprema sequens	ι	15	38	31	62	59	14	25	4	15	18	42	28	6
23	In Lino Boreo suprema	ρ	17	4	17	72	33	40	22	25	30	9	23	15	5
16	In Lino Austriaco octava	μ	18	7	27	85	35	4	18	23	43	3	2	38	A 5
22	In Lino Boreo penultima	κ	18	20	57	76	23	35	22	5	25	5	22	37	B 4
21	æotepenultima	τ	19	53	41	79	35	35	22	16	50	1	50	24	0
20	ultima	ο	20	41	35	79	31	31	22	2	15	1	37	2	5
17	In Lino Austriaco nona	ι	20	57	57	86	14	34	20	46	38	4	43	15	A 5
18	Ultima & decima	ε	24	1	25	88	27	26	22	48	25	7	54	38	5
19	Nodus Lini	α	26	8	17	88	52	30	24	28	30	9	4	18	3

In Constellatione CASSIOPEÆ.

19	In summitate Sedis omnium suprema	χ	348	38	49	33	20	10	23	28	25	54	1	37	B 6
12	Ad Genu sinistrum sequens	δ	349	28	53	44	22	4	13	43	41	44	56	52	6
12	Lucida Cathedra	ε	357	48	3	32	43	47	0	22	37	51	13	35	3
22	Parvula ad Crines	λ	3	26	11	37	17	32	0	5	23	45	39	12	6
11	In erectione Sedis	κ	3	32	29	28	57	0	7	56	5	52	13	35	4
	Infra erectionem Sedis	κ	4	8	38	29	51	44	7	20	5	51	20	52	7
	Supra erectionem Sedis	α	4	21	43	27	26	0	10	2	47	53	7	13	6
10	In sinistro Cubito	σ	4	32	13	36	7	0	25	27	3	49	24	0	6
1	Caput	ζ	4	36	27	37	58	0	0	24	33	44	40	50	4
2	Schedir in Pectore	α	5	19	23	35	19	0	3	3	33	46	37	28	3
23	Secunda Virga	ν	5	27	42	40	52	15	0	20	45	41	15	13	6
13	In summitate Sedis Australis	ρ	5	32	17	34	22	43	26	24	45	51	8	0	6
24	Prima Virga	ε	5	51	36	41	20	40	28	48	0	41	25	10	6
26	Extrema Virga	π	6	14	27	44	49	32	26	43	11	38	19	0	6
25	Penultima Virga	ο	6	31	3	43	34	8	27	46	37	39	17	17	6
14	In summitate Sedis Borealis	τ	7	10	35	33	13	13	26	24	34	52	35	40	6
3	Cingulum	η	7	15	25	33	59	34	8	5	29	50	7	3	4
	Parvula ad Coxas	η	8	10	44	30	39	23	9	3	34	49	27	33	6
4	In flexura ad Coxas	γ	9	6	59	31	7	34	9	12	50	48	47	40	3
21	In Gyro Umbilici	υ	9	11	15	32	38	0	7	55	45	47	33	15	6
9	In dextro Brachio	μ	11	54	29	26	44	55	6	28	51	43	16	24	5
	In Fimbria Tunice prima præcedens	δ	12	7	1	5	5	30	19	9	24	54	13	7	5
8	In dextro Cubito	ε	12	43	23	36	38	40	7	6	25	43	6	28	4
	In sinistro Femore	ε	14	53	31	28	16	5	15	18	27	49	22	25	7
	In fimbria Tunice secunda	δ	15	39	12	23	42	45	20	11	50	52	46	50	5
5	Sinistrum Genu	δ	15	58	11	31	32	14	13	11	64	6	23	48	3
20	Ad Genu sinistrum præcedens	δ	16	51	0	32	3	20	10	49	41	45	3	44	6
	In Fimbria Tunice tertia	δ	17	28	38	22	26	5	21	24	51	52	32	10	6
16	Præced. duar. Bor. Tyeh. extr. Scabelli	δ	18	3	1	18	43	38	26	55	30	55	58	7	6
15	Præced. duar. Aust. live in medio Sedili	δ	19	21	52	21	7	15	24	47	15	53	52	43	5
6	Dextrum Genu	ε	22	33	3	28	2	34	19	59	17	47	30	50	3
	In Fimbria Tunice quarta, & infima	ε	22	33	6	23	0	30	24	25	15	51	39	13	5

In Constellatione CASSIOPEÆ.

Ordo System.	STELLARUM Denominatio.	Brevitas Notæ	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Magn. Hæc.
			0	1	2	0	1	2	5	0	1	0	1	2	
18	In Scab. seq. dua. Aut. live intima Scab.	c	23	45	10	20	48	38	27	10	14	53	8	23	4
17	Bor. Tych. media Scab.		23	56	48	19	14	18	28	54	35	20	20		4
7	Extrema Pedis		30	28	29	24	10	37	27	30	41	48	55	0	4
	Sub Scabbello præcedens		31	37	12	18	43	36	2	48	20	53	15	30	5
	Sub Scabbello sequens		39	5	58	16	57	47	7	37	53	52	29	18	6

In Constellatione ANDROMEDÆ.

22	In Catena dextra Manus præced. prima	q	339	7	32	48	27	44	1	38	35	45	35	54	4
	In extremo Catenæ Annulo		341	37	51	49	26	34	3	11	0	43	46	0	4
	In Catena dextra Manus secunda		342	12	56	41	45	0	9	59	44	54	45		6
	tertia		344	13	56	42	23	45	11	2	15	46	37	0	6
	quarta		346	1	26	43	7	32	11	54	10	47	19	0	6
	Sub Catena, ante dextram Manum, infor.		348	39	57	52	33	0	7	16	30	38	18	17	6
10	Index dextrae Manus	λ	350	16	57	45	22	3	13	37	26	43	43	12	4
7	Pollicis dextri præcedens	ι	350	25	7	48	35	55	11	25	0	41	0	48	4
8	sequens	κ	350	59	59	47	28	43	12	42	50	41	44	30	4
9	Obscura dextrae Manus	ν	352	25	13	45	26	48	15	20	0	42	54	34	6
	In Catena sinistrae Manus media	ξ	355	7	49	66	44	28	5	21	30	23	9	26	6
1	Caput Andromedæ	α	357	48	57	62	44	43	9	36	36	25	43	12	2
	In Catena sinistrae Manus inferior	θ	359	17	39	71	40	18	6	55	43	17	1	22	6
5	In dextro Brachio Borealis	β	0	7	21	53	11	13	16	29	46	33	17	1	5
4	In dextro Brachio Australis	γ	0	11	13	55	5	18	15	42	43	21	24	42	5
6	In dextro Brachio media	δ	0	47	35	53	51	8	16	58	0	32	25	15	5
	In Syrmate Boreali præcedens		2	48	1	47	27	18	22	20	10	37	17	23	6
	In Syrmate Boreali sequens		4	36	11	47	20	42	23	52	52	42	37		6
2	In Tergo	π	4	42	1	58	6	48	17	58	16	27	10	0	4
3	Sinist. Humerus	ι	5	10	55	62	31	12	16	15	15	23	1	38	4
23	Sinistra Scapula	δ	5	21	11	60	58	38	17	8	7	24	21	3	3
	In Crinibus sub Brachio dextro		5	41	3	52	21	48	21	49	0	31	55	10	6
	Nebulosa Cinguli		6	4	45	50	32	3	23	10	10	33	23	4	Neb
	In Brachio sinistro præcedens		6	18	55	67	39	54	14	54	33	17	55	57	6
11	In sinistro Brachio sequens	ρ	7	9	1	67	34	38	15	41	23	17	41	33	4
15	In Cingulo supra	τ	7	47	25	50	44	54	24	25	11	32	34	16	4
	In Catena sinistrae Manus superior		8	11	47	62	28	48	4	27	36	28	18	14	6
14	In Cingulo media, seu secunda	μ	9	30	51	53	18	54	24	27	35	29	40	17	3
12	Sub fin. Cub. seu potius ad Terg. Pif. Borei	η	9	46	47	68	25	23	17	38	43	15	55	0	4
	In Femore dextro Aust. præcedens		11	17	44	50	28	20	27	11	24	21	37	42	6
	In Femore dextro Boreali	λ	12	11	6	44	54	48	29	32	34	33	30	40	5
21	In dextro Genu	φ	12	30	51	44	33	34	0	1	44	13	36	21	5
23	Lucida Cinguli Mirach	θ	12	44	29	56	9	34	2	54	0	35	56	54	2
	In Femore dextro Aust. sequens		12	52	18	49	42	13	29	5	37	31	41	29	6
	Inter Pedes trium in Pallio præcedens		13	40	47	46	15	30	3	11	0	33	47	20	5
	Inter Pedes trium in Pallio inferior		16	54	27	46	21	14	4	2	53	33	19	37	5
	Inter Pedes trium in Pallio sequens		17	44	46	45	3	57	5	25	30	34	10	10	6
	In sinistro Genu præced. superior	υ	19	15	26	50	15	37	3	53	18	29	1	10	6
18	In dextro Calcaneo	υ	19	21	43	43	6	32	7	44	2	25	23	17	4
20	In sinistro Genu præcedentium inferior	τ	20	9	0	51	8	0	4	10	22	37	56	9	5
19	In sinistro Genu superiorum sequens		20	21	10	49	8	0	5	19	29	29	42	24	5
17	Plantæ dextri Pedis	φ	20	41	13	41	2	14	0	54	7	26	48	27	4
	In Extremate dextri Pedis		22	21	31	40	3	18	11	40	18	37	10	28	6
	In sinistra sura		23	17	48	57	56	15	6	46	5	27	5	34	6
16	Lucida Pes Almach	γ	25	49	37	49	18	20	9	30	57	27	47	13	2
	Infra Almach in sinist. Tunice		27	36	15	52	34	18	9	29	20	24	14	23	6
	In Planta sinistrae Pedis		27	21	35	50	13	14	12	48	1	25	31	32	6

In Constellatione TRIANGULORUM.

Ordo	Stellarum Denominatio.	Reperitur	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Mag. Hæc.	
			0	1	11	0	1	11	0	1	11	0	1	11		
1	Supra Triang. majus præced. informis	α	20	36	41	56	25	38	8	2	7	10	22	57	38	6
	In Apice		23	28	27	62	5	10	2	9	20	16	47	27	4	6
	Supra Triang. informium		23	58	29	54	13	8	5	50	32	23	52	25	6	6
2	Sequens Apicem	ε	25	50	39	58	19	52	5	39	42	19	28	46	6	6
	Supra Triang. informium trium ultima		27	4	15	53	45	8	8	33	30	23	19	7	5	5
	In basi Borelior		27	22	31	56	37	50	7	37	22	20	32	50	4	4
3	Præcedentium superior	ι	28	11	9	61	16	7	6	29	2	15	59	56	6	6
	In basi trium præcedens		28	45	27	57	58	50	8	13	47	18	52	32	6	6
	In basi sequentium superior		29	3	55	57	20	20	8	44	10	19	22	35	5	5
4	In basi sequentium inferior	γ	29	19	33	57	44	20	8	47	47	18	55	24	4	4
	Præcedentium inferior		29	47	31	62	53	22	7	14	37	13	58	34	6	6
	Sequens		32	8	9	61	49	52	9	28	21	14	14	0	6	6

In Constellatione PERSEI.

1	Verricem præced. in Crilla superior	δ	22	26	57	36	41	48	13	46	9	40	6	37	B	6
	In Verrice, seu in Crilla inferior		26	38	41	37	19	28	16	16	14	38	22	27	6	6
	In Cuspide Ensis		28	16	29	46	43	14	12	37	35	29	24	27	6	6
2	In dextra Manu Perici	π	28	54	50	34	38	0	19	23	16	40	9	30	6	6
	In medio Ensis		29	27	7	44	19	20	14	37	6	31	16	9	6	6
	Oculus, vel duar. sibi ad hærent. Bor.		30	30	3	41	22	0	16	49	36	33	40	19	6	6
4	In Crinibus superior omnium	θ	35	17	1	51	17	2	16	8	21	23	11	35	6	6
	In sinistro Humero		35	20	55	42	15	11	19	55	33	31	34	25	4	4
	In dext. Brac. vel inter dext. Brac. & Caput		35	36	13	35	32	0	24	0	29	37	26	50	4	4
29	In Crinibus Medusæ, ad Ocul. præced.	ρ	37	20	11	53	4	42	17	6	34	20	56	43	4	4
	In Cervice		37	38	33	38	40	0	23	12	1	34	19	16	5	5
	In Crinibus Medusæ inferior. præced.		37	39	49	56	19	38	16	13	12	17	47	46	6	6
15	Oculus præced. Medusæ	π	39	16	51	51	41	8	19	10	8	21	44	22	4	4
	Humerus dexter		40	6	3	37	52	37	25	16	14	34	28	43	3	3
	In dextro Cubito, vel potius Brachio		40	8	33	34	37	0	26	49	6	37	29	18	5	5
14	In Crinibus infer. sequ. vel potius media	ρ	40	17	43	56	11	22	18	26	6	17	12	53	6	6
	In Naribus Medusæ		40	52	23	52	28	18	20	9	52	20	35	9	4	4
	In Dorso		41	14	51	41	43	38	24	26	27	30	37	19	4	4
12	Cypræ Medusæ, <i>Algol</i>	θ	41	34	43	50	22	53	21	27	0	22	23	17	5	5
	In sinistro Cubito superior		41	41	53	46	26	53	22	57	10	26	4	34	4	4
	In Bucca Medusæ		42	24	15	51	40	8	21	39	42	20	57	45	5	5
7	In Cubito sinistro inferior	α	43	7	43	47	54	24	23	31	3	24	21	25	5	5
	Sub Cap. Med. seu potius in Crin. trium ult.		44	22	45	57	2	53	21	32	35	15	21	0	6	6
	Fulgens in dextro latere		45	3	23	41	24	0	27	19	32	30	4	42	2	2
8	Inter lucidam & flexur. lateris prima	σ	46	45	6	43	13	32	27	54	1	27	59	9	5	5
	secunda		48	9	30	42	59	33	29	1	8	27	54	50	5	5
	In flexura lateris		49	43	31	43	21	30	II	0	3	42	15	0	3	3
22	Supra sinist. Calcaneum præcedens	0	50	8	27	56	59	38	26	21	20	14	3	0	5	5
	Supra sinistram Calcaneum sequens		50	15	49	57	14	8	26	23	35	13	47	29	6	6
	In sinistro Femore		50	24	27	48	52	18	29	5	25	22	6	18	4	4
25	In sinist. Calcæ, sinist. Pedis, præcedens	9	50	45	59	58	48	25	26	23	44	12	9	38	4	4
	In Talo sinistro Pedis		52	2	10	57	58	45	27	40	52	12	41	15	6	6
	In dextro Femore præcedens		52	57	5	40	26	28	II	3	20	10	29	26	8	8
26	Sinistri Pedis sequens	ε	53	14	33	59	8	45	28	24	22	11	18	5	3	3
	Sinistram Genu		53	49	51	51	0	50	II	0	57	49	19	3	59	3
	In sinistra Tibia		54	17	17	50	13	26	0	15	24	14	53	42	5	5
17	In dextro Femore sequens	λ	55	22	59	40	38	0	5	1	15	28	49	39	4	4
	In dextro poplite præcedens		56	2	40	43	15	48	4	45	14	26	10	15	5	5
	In dextro poplite sequens		57	32	23	42	30	18	6	3	40	26	39	27	4	4

In Constellatione PERSEI.

Ordo Typica	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Mag. Heli.
		h m s	° ' "	° ' "	° ' "	
	Infra Calkan. dext. ad poplitem sinist.	58 0 57	50 24 48	11 4 26	32 18 53	5 B
16	In dextro Genu	58 16 18	40 36 28	7 4 44	28 23 2	5
20	In dextro Sura	59 17 2	44 23 28	6 53 14	24 22 46	6
	Sub sinist. Pede Persei inform. superior	59 36 51	56 17 11	4 25 51	12 52 23	6
	Sub sinistro Pede media	60 38 9	56 45 0	5 11 21	12 14 46	6
	Inferior & minor	61 8 25	59 24 11	5 4 59	9 33 37	6
21	In Planta dextri Pedis	62 17 20	49 29 35	8 48 28	18 47 4	5

In Constellatione AURIGÆ.

21	Sub sinistra Manu Boreali. procedens	f	66 57 1	53 8 16	11 5 21	14 51 53	5
22	Sub sinistra Manu Australi	g	67 29 45	53 53 26	17 24 48	14 2 59	5
	In superiori Plumula		68 16 13	30 8 56	16 28 11	27 21 52	4
9	Sinister Pes	i	68 44 15	57 24 46	11 54 2	10 24 42	3
15	Ad sin. Clun. five sub sin. Manus seq. Bor.	u	69 4 9	52 38 16	12 53 35	15 5 27	5
	In inferiori Plumula		69 10 23	31 33 16	16 43 19	35 52 51	5
6	Caput Hædi	+	69 24 17	46 43 26	14 5 26	20 34 24	4
7	Hædus procedens	+	69 44 21	49 28 31	13 55 6	13 8 50	4
	Caput Capellæ		70 8 17	38 54 25	15 46 22	28 33 16	5
8	Hædus sequens	+	70 40 37	49 17 11	14 41 18	13 14 1	4
13	In Tergo Aust. ad Manum sinistram	μ	72 36 34	51 56 47	15 52 13	15 23 57	5
3	Capellæ	α	72 55 3	44 23 17	17 6 51	22 52 9	1
	In sinistro Femore superior proced.		73 33 6	56 0 13	16 9 2	11 16 49	6
	Inter utramque Plumulam		73 34 53	32 51 17	19 18 31	14 14 54	6
	In sinistro Tibia		73 38 39	59 5 0	15 52 16	8 12 46	6
12	In Tergo media	λ	73 50 15	50 14 47	17 4 14	16 58 21	5
	In sinistro Femore trium inferior		74 7 8	56 52 20	16 31 45	10 21 46	6
	media		74 21 13	56 35 30	16 45 29	10 37 16	6
11	In Tergo Borealis	+	74 36 48	48 34 50	17 53 3	18 33 32	6
	In dextro Calcaneo		75 4 20	60 31 21	16 57 6	6 37 53	6
14	In dextro Clune	σ	75 26 23	53 1 32	18 3 10	14 4 17	5
19	In Femore dextro	φ	76 17 2	55 49 34	18 27 49	11 13 2	5
	In Extremitate dextri Pedis		76 45 19	64 21 44	18 3 52	2 40 49	6
20	Ad sinistram Genu	χ	77 41 53	58 4 0	19 27 17	8 52 44	6
	In dextro Sura		79 18 25	60 1 10	20 41 6	6 49 12	6
26	Sub dextro Pede informis prima		79 44 49	64 21 44	20 45 25	2 27 41	5
16	Supra dextrum Cubitum procedens	τ	81 34 19	50 57 43	23 12 27	15 43 52	5
1	Suprema Capitis	α	81 38 42	34 26 18	24 25 34	32 12 55	6
17	Supra dextrum Cubitum sequens	β	82 0 51	50 17 42	23 33 50	15 42 39	5
27	Sub dextro Pede secunda		82 4 35	65 26 18	22 47 11	1 5 18	5
18	In dextro Cubito parva	υ	82 10 59	52 50 18	23 35 28	13 49 47	6
2	Inferior Capitis	δ	82 50 54	35 49 23	25 8 43	40 47 26	4
24	Sub dextro Pede tertia		83 1 47	62 37 54	23 48 13	4 7 46	5
10	Supra dextrum Humerum	π	83 35 1	44 19 0	25 15 0	22 35 48	5
4	Humerus dexter	β	83 38 21	45 8 29	25 9 34	21 27 38	2
5	Brachium dextrum	θ	84 6 51	52 50 28	25 10 25	13 45 6	3
25	Sub dextro Pede quarta		84 16 1	64 8 5	24 50 16	2 27 0	5
	Ad dextrum Brachium sub Axilla		84 33 16	47 29 0	25 45 18	19 5 26	6
23	Dextrum Genu	κ	88 26 51	60 23 15	28 38 33	6 6 52	4
	In Flagello ad Manum dextram		93 46 0	47 15 40	32 55 27	19 15 17	6

In Constellatione LYNCEIS.

Ordo Dybbm.	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Mag. Helioc.
		0 1 2	0 1 2	3 0 1 2	0 1 2	
	Gena dextra ad Oculum	87 7 35	28 15 40	128 16 43	15 0 0	6
	Ad Ment. præced. live in Narib. præced.	87 24 16	30 53 10	28 21 41	35 37 27	5
	Ad Ment. seq. live in Narib. sequens	89 20 53	31 23 57	29 35 43	35 6 46	6
	In Collo inferior	96 42 26	31 52 3	4 18 10	34 43 34	6
	In Collo superior, seu ad Collum	97 2 0	31 10 33	4 24 30	35 25 31	5
	Ad Armum sinistrum	98 9 15	44 30 40	6 9 49	32 9 29	6
	Ad Aurem sinistram	102 13 42	29 41 53	7 33 45	37 6 57	6
	In Latere præcedens	103 14 24	33 53 58	9 29 37	1 50 5	5
	In educatione Colli	103 45 29	34 6 27	9 7 5	32 49 21	6
	In Latere sequens	105 3 12	40 21 23	10 51 4	42 42 18	5
	Supra Cervicem	108 24 33	30 32 47	11 32 4	36 41 7	5
	In Tergo	115 35 11	37 33 48	17 47 37	30 30 16	5
	In imo Ventre	119 51 1	45 43 44	22 48 25	23 4 27	5
	Ad sinist. Genu poster.	123 9 55	52 27 30	26 59 24	17 6 3	6
	Ad educationem Caudæ præcedens	124 19 35	43 0 14	25 26 58	26 29 11	6
	Ad educationem Caudæ sequens	127 11 37	45 8 15	28 11 56	24 56 27	6
	In Cauda superior ad Pedes Uræ Maj.	132 49 15	45 23 48	2 31 25	25 49 32	5
	In Cauda media	134 22 21	51 46 4	5 47 52	20 5 42	5
	In Cauda ult. vel ad Chel. Bor. Capri	135 3 31	54 10 33	7 6 3	17 57 38	3

In Constellatione URSE MAJORIS.

	Præcedens Caput	103 52 40	20 54 39	7 4	245 55 39	5
	In Rostrum præcedens	113 43 1	28 11 47	14 15	639 28 15	5
	In Fronte superior inter Aures	114 24 23	20 37 35	12 33	4 54 32	6
	In Rostrum sup. vel pot. in Fr. inf. inter Ocul.	114 29 49	24 16 30	13 33	4043 22 16	5
	In Rostrum media	117 28 50	29 29 1	16 54	1738 37 55	6
	In Rostrum sequens	120 23 47	28 12 30	18 14	5410 12 17	4
1	Ad Oculum præcedens	121 22 31	23 49 20	17 9 32	44 32 6	5
2	Ad Oculum sequens Australis	122 24 9	24 33 10	18 1	1243 57 40	4
	In Maxilla præced. Australis	126 9 56	26 49 55	21 6	342 17 40	5
4	Ad Aurem præcedens	128 4 44	21 11 11	19 24	1847 52 0	4
13	In Drace dextra præced. Borealis	128 52 0	40 40 50	28 2	3719 32 20	3
26	In Drace sinistra	129 34 0	46 52 40	0 31	1423 43 44	4
5	Ad Aurem sequens	129 58 16	21 32 40	20 33	2747 47 27	5
14	In Drace dextra seq. & Australis	130 0 43	41 33 26	29 9	4128 55 9	3
	In Maxilla seq. & Borealis	130 20 44	25 10 45	22 47	5144 29 56	4
15	In Armo dextro Australis	131 5 43	37 2 52	28 19	3033 25 17	5
35	Sub Drace sinistra	131 9 27	50 13 50	2 46	2020 50 53	4
7	In Collo Australis	131 41 26	27 13 0	24 39	1642 47 12	5
16	In Armo dextro Borealis	132 47 57	34 36 22	28 30	3736 3 24	5
6	In Cervicem	135 53 12	18 42 42	21 35	2251 13 12	5
8	In Collo Borealis	135 59 10	25 21 15	26 1	4645 5 0	4
	In Poplite Ped. anter. sinist. præced.	136 43 25	42 56 33	4 23	1729 0 43	6
12	In Armo sinistro Australis	137 25 55	36 49 51	2 34	2034 54 43	3
	Supra Cervicem	147 27 49	16 12 0	27 17	2953 38 18	6
56	Parva juxta Armum sinist. Borealis	137 51 33	36 33 12	2 44	2535 15 40	6
	In Poplite Ped. anter. sinist. sequens	141 33 30	42 24 0	7 52	3930 39 38	6
10	In Humero sinistro Borealis	141 37 43	29 26 24	1 34	942 36 16	4
11	In Humero sinistro Australis	142 5 52	34 21 30	4 31	5538 13 27	4
21	In Ungula poster. sinist. Borealis	149 1 49	45 24 50	14 44	5429 50 14	4
	Ante Ictus	149 42 10	22 45 42	1 25	2250 9 10	5

In Constellatione URSAE MAJORIS.

Ordo Tycho.	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Mag. Hec.
		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
22	In Ungula poster. finist. Australis	150 23 29	46 49 10	16 25 8	28 55 57	B
	In medio Ventris duar. preced. Aust.	152 3 47	32 19 44	9 48 45	42 26 58	6
	In Ungula finist. Ped. post. trium seq.	153 13 1	47 50 40	19 3 53	28 49 52	5
	In medio Ventris duar. preced. Boreal.	153 30 11	31 12 14	9 52 22	43 45 40	6
	Supra Collum	154 23 24	19 14 42	0 22 10	53 59 30	5
	In imo Ventre	155 49 11	42 6 22	18 9 18	24 48 20	6
	In medio Vent. trium minorum seq.	158 22 5	33 3 0	14 20 55	43 30 34	6
	In Genu finist. Australis	158 33 3	45 0 16	21 44 19	33 2 37	5
	In Genu finist. Pedis poster. Bore.	159 38 10	42 27 58	21 9 26	35 38 40	6
18	In Ventre	160 15 44	31 46 43	14 37 35	45 7 14	2
	Duarum sub Genu precedens	160 20 33	47 51 40	24 35 50	31 2 50	5
17	In latere	160 34 45	26 24 20	10 23 58	49 40 23	2
	Duarum sub Genu sequens	161 33 41	47 51 46	25 32 40	31 20 41	6
	Duarum inter Pedes preced.	161 59 54	49 18 10	26 37 30	30 18 0	7
23	In Gen. fin. Bor. vel pot. sub fin. Fem. prae.	162 30 15	43 40 36	23 58 5	35 28 56	4
24	In Ungula Pedis post. dextra Borel.	164 51 47	55 1 20	11 45 40	26 7 53	4
25	In Ungula Pedis post. dextra Aust.	165 0 31	56 33 18	2 36 0	24 47 50	4
	Duarum inter Pedes post. sequens	165 4 7	49 56 42	51 29 23	30 45 40	5
	Sub finist. Femore sequens	165 57 55	44 39 16	27 9 55	35 45 34	6
	Supra dextrum Genu Pedis post.	167 36 45	48 51 46	12 0 50	32 36 19	6
	Latere sequens	168 40 18	26 21 20	51 14 52	31 54 0	6
	Sub Pede dextro posteriori	170 28 47	50 53 26	12 7 20	26 27 53	6
	In Pop. Ped. dext. post. trium inf. prae.	170 45 25	53 52 0	6 2 50	29 16 30	6
30	In Femore finist. ro	172 14 57	40 21 17	51 29 5 43	41 36 16	4
	In Poplite Pedis dext. post. trium media	173 15 10	52 59 5	12 7 38	40 57 48	6
20	In Coxa	173 55 18	34 23 3	51 25 38	247 8 0	2
	In Poplite Pedis dext. post. trium superior	176 2 11	52 4 27	12 9 26	32 48 44	6
	Sub Femore dextri Pedis posterioris	176 7 43	45 3 13	5 14 30	38 57 25	5
19	In Dorso	179 35 47	31 3 10	51 26 12	51 38 35	3
	Inferior Lumbi	180 44 0	39 9 25	12 4 26	45 34 18	5
	Superior Lumbi	182 21 50	36 29 0	3 20 39	48 20 25	4
	Supra Tergum Nebulosa	183 32 41	29 39 27	51 27 10	44 0 33	6
43	Præ. inf. sub Cau. vel in Fr. seu Ocul. Cha.	184 19 11	46 47 8	12 52 47	40 31 47	5
26	Prima Caudæ	189 45 53	32 10 10	5 4 45	54 19 0	2
29	Infor. sub Cau. vel pot. in Ann. Arm. Cha.	190 0 5	49 50 0	19 47 34	40 7 23	2
	Supra primam Caudæ	191 30 24	31 46 27	4 48 10	55 14 0	5
27	Media Caudæ	197 33 4	33 15 20	10 49 21	56 23 17	2
	Alcor, supra medium Caudæ	198 0 39	32 13 32	11 2 29	56 30 0	5
	Sup. med. Caud. & int. prim. Caud. Drac.	198 35 51	28 19 0	4 53 50	60 1 20	5
	In Triang. supra Caud. preced. Aust.	201 32 49	35 18 30	16 19 20	56 24 30	6
28	In Triang. supra Caud. preced. Boreal.	201 36 37	33 34 40	14 26 50	57 49 33	6
	Ultima Caudæ	203 32 10	38 56 58	22 3 39	54 25 7	3
	In Triang. supra Caudam sequens	205 21 35	34 51 10	18 28 2	48 17 13	4

ASTERIONIS & CHAERÆ.

Sub Capite Chaeræ	179 41 57	47 33 56	12 9 43	28 6 45	15 6
In Pede Chaeræ anteriori finist. ro	179 46 33	55 4 4	14 14 28	31 35 19	5
Sub Capite Chaeræ sequens ad Genam	182 11 51	42 6 18	12 46 40	37 44 20	5
In Fr. Cha. 2. ins, sub Caud. Urse Maj. prae.	184 19 11	46 8 0	12 57 40	31 47 5	5
Inter Pedes Chaeræ anteriores	184 47 37	54 50 15	18 25 20	33 44 9	6
In Armilla Chaeræ	188 26 23	50 40 40	19 1 0	48 47 0	6
In An. Arm. Cha. 2. ins, sub Cau. Urse Maj.	190 0 5	49 50 0	19 47 36	40 7 23	2
In Ventre Chaeræ	191 2 25	37 20 28	25 20 15	53 59 55	4

ASTERIONIS & CHARE.

Ordo	STELLARUM Denominatio.	Ascensio Recta	Distancia a Polo B	Longitudo	Latitudo	Age Helioc.
1	2	3	4	5	6	7
	In Tergo Charæ	192 16 11	52 12 0	23 19 0	38 58 38	5
	In Pede sinistro Asterionis	193 43 23	49 39 0	22 52 45	41 44 50	6
	In Pedore Asterionis infer.	194 47 49	48 0 0	22 38 30	43 34 30	5
	In Pedore Asterionis præcedens	195 31 3	47 36 0	22 58 40	44 11 54	6
	In Fronte Asterionis	195 55 21	38 30 42	15 26 51	51 47 0	4
	Sup. Terg. Cha. vel inter Char. & After.	195 58 29	53 2 0	27 9 55	49 42 47	6 7
	In Pedore Asterionis sequens	196 5 9	48 0 40	23 46 14	44 4 32	6
	Ad Aur. Ab. seu pot. int. Aur. & Cau. Ur. Ma.	200 3 19	39 14 7	39 30 50	52 49 35	4
	In Intere After. superior & præced.	200 24 5	51 17 18	29 22 30	42 59 54	5
	In Intere After. inferior & sequens	200 34 55	51 57 22	0 41 04	42 29 54	6
	In Femore Charæ	202 42 29	62 25 11	8 58 12	34 7 41	5
	In Tergo Asterionis præcedens	202 43 21	48 0 38	28 49 13	47 30 45	6
	In Tergo Asterionis sequens	203 1 23	49 45 12	1 18 04	51 21 34	6
	In Femore sub Cauda Charæ	205 16 7	60 47 26	10 32 12	36 35 27	5
	In Ventre Asterionis	206 45 0	53 49 31	5 18 21	42 19 54	6

In Constellatione COME BERENICES.

7	Intra Coronam infima	179 47 57	64 9 30	18 53 22	33 28 55	5
5	sexta	181 22 5	62 15 47	19 22 12	25 48 17	5
6	quinta	181 53 17	62 10 48	19 45 12	26 4 10	5
2	secunda	182 28 59	60 50 48	19 38 10	27 30 18	5
1	suprema	182 29 3	59 48 18	19 6 12	28 25 53	4
3	tertia	182 29 23	61 16 33	19 50 50	27 7 18	5
4	quarta	182 58 47	62 10 33	20 44 12	26 30 50	5
9	Ad limbum Orient. Aust.	183 16 55	63 59 33	21 53 58	5 0 2	5
8	Ad limbum Orient. Boreal.	183 32 1	63 29 33	21 52 15	25 32 40	5
10	In limbo Orient.	184 29 55	65 28 28	23 42 30	24 9 5	4
	Sub Coma præcedens superior	184 35 21	69 42 20	25 45 0	20 22 0	6
2	Sub Coma sequens inferior	186 7 47	71 33 43	27 59 0	19 17 44	7
13	In Coma præcedens	188 46 5	60 33 28	25 4 0	30 14 50	5
	In Coma Australior	189 8 55	66 53 20	28 36 0	24 43 40	4
14	Duarum sequentium Aust.	191 40 21	63 11 20	29 4 0	29 3 10	5
12	Duar. sequent. Bor. five Bor. media	192 46 31	60 30 8	28 39 26	31 53 28	5
11	Duarum sequentium ultima	194 0 55	60 21 42	29 42 53	32 30 36	4
	Trium Extremarum præcedens	197 22 39	64 20 30	4 56 0	30 17 37	6
	In Coma ad Pedem sinist. Bootis	197 56 43	74 21 13	10 11 0	22 16 55	6
	Trium Extremarum media	200 33 47	63 33 44	7 32 0	32 15 21	6 7
	Trium Extremarum ultima	201 20 53	65 35 44	9 19 12	30 44 14	6 7

In Constellatione BOOTIS.

	Ad Pedem sinistruum	200 44 33	77 27 27	14 10 0	19 41 44	6
	In Fimbria Tunice præcedens	201 8 29	68 17 26	10 26 48	28 13 10	6
13	Media sinistri Cruris	202 48 19	70 49 54	13 14 26	26 33 31	4
14	Infima sinistri Cruris	203 17 19	72 29 24	14 27 15	25 13 58	4
	In Fimbria Tunice media	203 25 7	67 1 32	12 1 0	30 15 26	5
12	Sinistra Tibia	204 38 51	63 51 28	14 33 34	28 9 32	3
	In Fimbria Tunice sequens	205 43 51	66 36 56	14 4 34	31 31 32	6
	In sinistra Coxendice sequens	208 41 14	63 15 12	15 15 15	35 43 33	5
	In sinistro Cubito	208 49 10	44 29 30	2 21 2	52 5 0	5
	Inter Pedes inferior	209 34 14	78 14 56	23 1 15	22 19 3	6
15	Archurus	210 3 55	68 59 32	19 29 6	31 1 0	1
1	Sinistra Manus præcedens	210 16 23	36 26 27	25 3 4	58 52 27	4

CATALOGUS FIXARUM.

61

In Constellatione BOOTIS.

Ordo Typus.	STELLARUM Denominatio.	Reclina Cl.	Ascensio Reclina			Distantia a Polo B			Longitudo			Latitudo.			Mag. Hec.
			0	1	2	0	1	2	0	1	2	0	1	2	
4	Inter Pedes superior		210	41	30	75	22	56	222	56	40	25	23	1	B
	In Fimbria Tunice sub Arturo		210	53	20	72	6	0	21	43	30	28	29	10	5
	In sinistro Lacerto	λ	210	53	23	42	17	27	2	8	0	54	42	33	4
	Sub sinistro Brachio, in latere	Δ	210	54	7	52	47	30	11	5	0	45	51	54	5
2	Sinistræ Manus media	ι	210	55	7	37	1	57	226	25	30	58	49	30	4
	Sub dextro Calcaneo		211	40	28	79	59	26	235	47	10	21	27	46	5
	Sub Planta dextri Pedis		211	50	24	82	35	30	26	57	15	19	5	50	5
3	Comes Arcturi	ι	212	38	0	69	12	14	22	9	45	31	47	46	5
	Sinistræ Manus ultima	θ	213	24	17	36	24	27	27	42	0	60	8	40	4
	In Dorso præcedens Borealis	ρ	214	16	24	58	4	0	217	57	33	42	31	22	4
10	Humerus sinister	γ	214	37	3	50	9	25	12	52	5	49	35	47	3
9	In Dorso sequens Australis	σ	214	57	2	58	43	30	19	3	21	42	11	16	4
16	In dextro Femore infima	τ	216	10	34	72	5	24	27	4	0	30	24	59	3
11	In Extremitate dextri Pedis		216	13	4	80	20	25	22	0	26	0	22	44	1
	Crux dextrum	ζ	216	15	3	74	45	39	23	5	15	47	27	56	2
17	Sub lucida Cinguli		217	4	23	61	59	0	23	7	15	40	0	55	6
	Sub dext. Pede, prima in Monte Manalo		217	17	2	86	38	54	23	46	35	17	9	39	4
	In dextro Femore media	ο	217	21	7	71	34	24	228	2	45	31	18	39	4
8	Cingulum	ι	217	32	49	61	25	40	23	19	0	40	41	43	3
18	Supra Incidam Cinguli		218	49	7	59	55	50	23	49	10	42	31	8	5
	In dextro Femore Borealis	ε	218	57	24	69	27	24	28	45	45	33	49	57	4
	Ad Genam		219	3	55	51	17	38	18	24	7	50	19	0	6
19	Sub dextro Pede secunda		221	25	0	86	32	18	7	51	17	18	36	17	4
	Sub Capite Austral. minor.		221	39	27	49	21	58	22	19	41	24	52	58	2
	In dextra Manu infer. præcedens	ω	221	47	20	63	36	7	28	59	28	40	14	23	5
6	Caput	θ	222	19	25	48	14	53	29	28	11	54	11	37	3
	Ad Collum		222	21	45	52	26	38	32	33	15	49	28	50	6
	In dextra Manu super. præcedens	↓	222	28	2	61	40	22	28	43	15	42	15	2	5
20	In dextra Manu inferiorum sequens	ε	223	6	4	63	45	23	0	29	51	40	33	5	6
20	In dextra Manu super. sequens	δ	223	22	32	62	29	7	0	8	52	41	49	10	6
23	In media Clava præcedens Australis	χ	225	4	10	59	32	35	0	25	42	45	6	18	5
	Informis inter Bootem & Caput Serpentis		225	15	27	68	10	16	4	55	50	37	9	15	5
	Humerus dexter	δ	225	27	59	55	22	22	228	20	10	49	1	42	3
7	Sub dextro Pede tertia		225	28	14	86	54	7	22	2	219	29	34	5	5
	In media Clava media		226	28	35	59	10	10	1	45	8	45	54	44	6
	Parvula ad dext. Humer. in Clava		227	1	36	55	49	5	0	24	42	49	10	57	5
24	In media Clava sequens Borealis		227	15	0	58	26	50	2	16	5	46	51	12	5
	Sub dextro Pede quarta & ultima		227	50	36	86	53	30	14	26	21	20	11	30	6
	In Extremitate Clavæ præcedens		227	53	16	52	24	50	228	22	15	53	27	15	4
26	sequens	μ	231	36	0	52	12	50	3	24	8	54	0	10	4

In Constellatione CORONÆ.

2	In superiori limbo prima	β	228	27	11	59	41	0	22	4	20	20	46	6	6	B
3	In superiori limbo secunda	θ	229	47	27	57	26	40	4	37	13	48	36	29	4	4
1	Lucida Coronæ	α	230	4	51	62	5	32	7	28	52	44	23	20	2	4
5	In inferiori limbo prima	γ	232	6	53	62	34	40	10	5	0	44	33	58	4	4
4	In superiori limbo tertia	τ	232	34	23	56	22	5	7	18	15	50	29	12	5	5
6	In inferiori limbo secunda	δ	233	49	13	63	50	20	12	13	0	44	49	50	5	5
7	In inferiori limbo tertia	ε	235	51	44	62	4	35	14	18	6	46	8	42	4	4
8	In superiori limbo quarta	ι	236	57	39	59	7	40	14	12	8	49	14	50	5	5

In Constellatione SERPENTIS.

Ordo Stellarum	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Mag. Hæc.
		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
7	In educatione Colli secunda	227 54 20	73 28 50	9 59	32 59 24	5
1	In educatione Colli tertia	229 39 1	78 17 0	13 34 46	28 56 12	5
1	In inferiori Mandibula	231 35 15	69 10 50	11 22 45	28 10 20	5
8	Lucida in media Colli	231 55 35	82 26 0	17 19 39	23 35 40	2
	Sub Collo in primo flexu præcedens	232 0 20	86 34 33	18 37 20	21 37 28	6
16	Prope lucidam Colli	232 32 15	81 30 15	17 41 42	26 39 9	4
4	In educatione Colli prima ad Genam	232 38 27	73 27 50	15 10 24	23 41 3	3
10	In secundo flexu	232 58 28	87 41 40	21 10 16	20 9 4	6
	Sub Collo in primo flexu sequens	233 17 1	86 41 50	19 59 03	21 50 23	4
5	Sub Oculo ad Maxillam	233 20 33	70 46 20	14 58 32	27 9 55	4
9	Infima Colli	233 26 3	84 25 50	19 30 15	24 4 4	3
2	In Ore	234 4 35	67 57 50	14 43 46	40 2 55	4
3	In Temporebus	235 11 5	73 11 26	17 55 28	35 21 19	3
6	In Extremitate Rostri	236 58 13	66 13 4	17 24 46	42 31 0	4
	In primo flexu Serp. seu Br. Serp. præced.	241 13 25	88 5 22	28 39 34	22 19 41	5
17	Ante ult. Nex. vel pot. in Pal. inf. Ant. Ser.	255 24 43	77 35 45	15 31 61	20 22 9	4
35	Ante ultimum Nexum primo	259 29 41	74 56 30	19 45 24	8 4 25	4
9	Post ult. Nex. vel pot. in Pal. sup. Bor. Ser.	259 50 43	97 47 45	19 23 53	15 20 52	4
36	Ante ultimum Nexum secunda	260 32 7	102 33 45	20 36 3	10 38 3	5
11	Prima Caudæ	265 39 15	93 35 17	25 23 18	19 50 52	3
12	Penultima Caudæ	270 54 19	92 54 52	0 57 57	22 35 17	3
13	Ultima Caudæ	279 50 55	86 9 56	11 2 19	26 57 40	3

In Constellatione SERPENTARIL

7	In Manu sinistra Borealis	239 8 7	97 43 40	27 31 42	17 21 19	4
8	Australis	240 6 45	93 47 48	28 45 37	16 31 4	4
46	In sinistro Pede	241 1 57	109 8 26	2 45 36	1 39 37	4
	Brac. Ser. præ. vel pot. in primo flexu Ser.	241 13 31	88 5 48	28 39 44	22 19 28	6
45	In sinistro Crure Australis	241 50 55	107 34 18	3 13 12	3 20 53	4
21	Poplite	242 21 7	97 31 3	1 47 16	13 18 48	5
44	Crure Borealis	242 52 47	105 45 38	3 51 27	5 18 38	4
47	Calcaneo	243 0 23	110 37 53	4 51 46	0 32 34	4
6	Brachio præced. trium infer.	243 26 45	87 12 18	0 49 46	23 38 40	4
13	Genu	244 38 17	99 48 48	4 29 24	11 28 7	3
	Brachio præced. trium media	245 55 29	85 3 22	3 3 42	26 13 12	5
	Brachio præced. trium super.	247 20 21	80 43 0	3 44 35	20 44 29	6
	In Clune finit. trium inferior	247 46 8	100 6 0	7 38 35	11 41 16	5
	In sinistro Brachio sequent. inferior	247 46 27	84 3 36	4 53 49	27 31 40	6
	Brachio sequent. sup. sequens	248 25 17	82 5 48	5 14 21	29 34 4	5
	Latere	249 1 3	88 2 0	6 58 26	23 48 6	5
	In Clane finit. media	249 11 30	95 40 0	8 23 55	16 14 29	6
4	Superior in Humero sinistro	249 28 17	79 13 16	5 52 13	22 24 24	4
5	Humeri finit. inferior	250 22 35	80 2 36	7 4 03	54 31 3	3
	In Clune finit. superior	250 43 53	93 37 0	9 40 28	18 32 11	5
12	In dextro Femore	252 42 35	105 12 31	13 11 27	7 17 27	3
	In Gena præcedens	254 5 11	78 53 31	11 9 35	33 34 37	6
	In Tergo inferior	254 44 19	89 59 16	13 25 46	22 38 31	5
27	In dext. sur. Tyeb. secund. mihi Clar. & pri.	255 17 9	114 32 11	16 38 3	1 42 46	4
	In Gena sequens	255 38 22	73 51 46	12 58 22	33 47 46	6
28	In dext. sura, Tyeb. tertia, mihi secunda	256 21 5	113 44 6	17 31 26	0 49 12	4
	In dextro Latere, vel in Lumbo dextro	257 6 31	94 42 0	16 27 45	18 12 1	5
	In Tergo superior	257 22 41	85 28 16	15 47 45	27 24 46	3
	In Cervice	259 38 38	80 19 47	17 47 03	27 55 31	6

In Constellatione SERPENTARII.

Ordo System.	STELLARUM Denominatio.	Re- ctasc.	Ascensio Recta			Distantia a Polo B.			Longitudo			Latitudo			Mag. Hess.
			0	1	11	0	1	11	5	0	11	0	1	11	
1	Caput	α	259	46	27	77	7	0	17	39	22	35	57	3	2
2	Humeri dextri superior	β	261	39	51	85	13	15	20	34	53	28	0	4	3
3	Humeri dextri inferior	γ	262	42	19	87	7	0	21	52	24	26	10	59	4
10	In dextra Manu Australis	ι	265	3	5	99	38	26	24	58	17	13	46	43	4
22	Infor. juxta dext. Hum. quarta super.	η	265	47	37	85	32	49	25	15	15	27	53	2	5
23	Secunda, vel media præcedens	θ	265	53	27	86	58	56	25	24	56	26	27	29	4
24	Tertia, vel prima & inferior	κ	266	5	51	88	34	56	25	41	57	24	51	55	4
11	In dextra Manu Borealis	τ	266	7	17	98	3	19	26	1	015	23	47	5	5
25	Quæ secundam, vel mediam sequitur	ρ	267	2	53	87	20	56	26	42	55	16	7	22	4
	Duarum supremarum Borealis sequens	σ	267	48	21	80	23	46	27	25	333	5	26	4	4
	Duarum supremarum Australis	ς	267	48	29	80	55	2	27	25	53	32	34	6	5

In Constellatione CERBERI.

	In medio Capite inferior	α	266	14	20	73	6	0	25	16	35	40	20	23	5
	In priori Capite	β	266	45	51	68	19	13	25	44	8	45	8	16	5
	In tertio vel ultimo Capite	γ	268	32	24	67	51	43	28	6	31	44	20	4	5
	Medio Capite superior	δ	272	17	55	68	19	54	28	3	1	46	45	9	4

In Constellatione DRACONIS.

	In Extremitate Caudæ	α	130	19	26	7	12	20	9	32	360	38	47	8	5	
17	Post flexur. secund. seq. tert. media parvula	β	167	14	56	17	41	12	8	23	84	6	9		4	
21	Ultima Caudæ	λ	167	32	51	18	48	12	5	29	59	57	10	47	3	
	Sup. Cau. seq. Bor. vel sup. pen. ad Cap. Cam.	μ	178	54	15	10	29	10	24	42	43	64	12	5	5	
	Sup. pen. Caud. seq. Aust. vel sup. med. Caud.	ν	180	54	53	12	54	51	0	5	58	63	32	30	6	
20	Penultima Caudæ	ξ	184	41	35	18	18	7	11	23	14	61	44	50	3	
28	Prope primam Caudæ parva	ι	205	25	0	23	35	3	10	0	5	65	21	5	5	
29	Prima Caudæ	α	208	49	16	23	58	0	2	32	36	66	21	20	2	
	Sup. Cau. præ. inter ult. & Extrem. Caudæ	β	208	57	41	12	33	34	21	23	12	58	32	53	5	
	Caput præcedens Australis	γ	223	11	22	22	40	2	10	5	49	27	72	3	6	
27	In flexura quarta	δ	229	17	55	29	44	43	29	58	55	71	7	24	3	
	Seq. ult. inter Caud. & Urfam Minorem	ε	235	27	0	26	17	5	24	44	9	75	23	23	6	
26	Ante flexuram quartam proximam	θ	238	55	40	30	29	0	11	47	20	74	29	15	3	
	In tertia flexura sequens	ι	244	14	33	22	44	55	10	13	54	17	59	55	40	6
25	Ante flexuram quartam prior	κ	244	53	2	27	29	47	9	15	41	78	29	0	3	
	Caput præcedens Borealis	λ	246	58	42	36	23	33	11	7	45	33	72	56	0	5
20	In flexura tertia præcedens	μ	247	19	19	20	28	5	10	0	22	31	2	36	3	
23	Post flexur. tertiam quarta parvula	ν	249	42	25	24	47	25	29	18	37	81	38	15	5	
11	Ante flexuram secund. lucid. Boreal.	ξ	251	44	36	22	51	45	13	24	58	82	48	45	3	
22	Post flexuram tertiam, tertiam	η	253	35	7	24	18	15	10	29	28	57	31	19	5	
1	In Lingua	ι	254	32	8	35	2	23	11	19	46	4	76	17	4	
24	Post flexuram tertiam, secundam	κ	257	7	19	23	48	25	27	28	0	84	50	0	3	
3	Ad Rostrum	λ	260	41	9	37	25	35	7	7	42	75	20	15	3	
2	In Ore	μ	261	26	23	34	32	17	5	32	37	78	14	20	4	
21	Post flexur. tert. Polo prox. vel prima	ν	264	29	52	21	14	44	10	22	886	55	30		4	
4	Ad Genam	ξ	266	58	1	32	2	33	20	4	43	30	21	36	4	
5	In Vertice	η	267	9	15	28	26	42	23	9	10	24	59	37	3	
6	In flexura prima Borealis	θ	274	45	19	31	18	53	17	47	47	81	53	45	5	
19	Post flex. secund. sequent. trium præced.	ι	276	19	51	18	50	43	11	6	45	13	84	49	2	
8	In flexura prima media	κ	276	44	11	33	6	43	21	24	33	59	53	24	5	
18	Post flex. sec. seq. trium ult. Austral.	λ	276	47	53	17	26	13	11	45	20	83	29	40	4	
7	In flexura prima Australis	μ	279	2	34	34	44	0	25	26	16	77	58	0	5	
9	Post flexuram primam	ν	281	28	12	30	59	23	10	18	2	80	33	0	4	

In Constellatione DRACONIS.

Ordo Systema	STELLARUM Denominatio.	Recta Ascensio	Distancia a Polo B			Longitudo				Latitudo				Mag. Herc.
			0	1	2	0	1	2	3	0	1	2	3	
14	Post flex. sec. præced. præced. Borealis.	284	29	28	19	8	48	16	12	24	83	11	20	4
10	Ante flexur. secund. Aust. parvula	289	39	21	25	3	0	29	34	19	81	48	12	4
15	Post flex. sec. duar. præced. Aust. sequens.	289	49	41	17	46	12	18	22	46	21	2	0	4
16	In flexura secunda Bor. præced. parvula	293	51	52	20	13	38	27	10	33	80	57	12	4
13	In flexura secunda duarum Aust.	297	14	35	20	35	33	28	17	43	79	27	50	3
32	In flexura secunda præced. Aust.	299	24	0	26	7	40	1	38	22	77	30	34	3
12	In flexura secun. media Aust. vel seq. Bor.	300	13	5	23	7	0	15	48	6	78	9	0	4

In Constellatione LYRÆ.

	In Ala dextra	271	56	21	54	0	53	3	5	23	59	28	13	5
	In Ancone Alæ dextræ	273	12	30	50	37	35	5	26	3	62	49	0	6
1	Lucida Lyræ	276	21	21	51	29	15	10	23	17	61	47	17	1
2	Lucidam sequens Borealis	278	12	4	50	41	25	13	47	29	62	25	13	5
3	Lucidam sequens Australis prima	278	12	15	52	42	57	13	17	38	60	24	37	5
8	Sub præcedenti in Jugo	279	13	25	57	45	45	13	51	6	55	19	3	6
7	In Jugo præcedens	279	20	51	56	57	6	14	7	16	56	4	50	4
4	Lucidam sequens Australis secunda	280	34	30	53	29	56	16	50	25	59	23	33	5
	Ad Collum Vulturis inferior	281	10	12	46	28	30	20	24	10	56	14	25	5
9	In Jugo sequens	281	31	47	57	41	35	17	11	6	55	7	30	3
10	Sub sequenti in Jugo	281	37	42	57	51	16	17	17	2	54	57	10	6
	Ad Collum Vulturis superior	282	57	40	43	24	38	25	21	21	68	52	22	6
11	Lucidam sequens Australis tertia	283	42	8	54	22	43	21	22	38	58	6	43	6
5	Id Ala seq. Vult. Borealis	285	29	36	15	29	36	25	17	53	60	45	50	5
6	In Ala seq. Vult. Aust. five dua. med. Bor.	286	4	0	52	25	5	25	43	29	59	38	37	5
	In Cuspide Alæ sinist. superior	288	27	19	54	16	13	28	30	26	57	25	17	6
	inferior	289	42	31	56	12	9	29	30	47	55	17	42	5

In Constellatione VULPECULÆ & ANSERIS.

	In Ala dextra Anseris	285	25	3	69	9	10	19	57	22	43	17	20	5
	In Anc. Alæ dext. Anf. olim, sub Cap. Anf.	285	49	45	67	32	30	20	49	5	44	49	26	6
	In Capite Anseris	287	13	9	64	20	15	23	23	36	47	46	25	6
	Sub Ala dextra Anseris	287	42	39	70	34	35	22	32	33	41	33	0	6
	In Naso inf. ante Rost. Cygni infer.	288	40	15	65	56	0	24	52	6	45	58	4	4
	Ol. in Ala sin. An. nunc vero Pes dex. Vulant.	289	56	9	70	54	18	25	13	6	40	52	0	5
	Ad Genam, vel in Capite ad Oculum	292	22	39	64	57	48	29	54	50	46	14	16	6
	In aure sin. vel Nov. sub Cap. Cyg. non ad amp.	293	24	25	63	29	11	1	43	30	47	28	3	2
	In Pedes anteriores dextro	294	5	51	68	11	49	1	4	21	42	44	12	6
	In Collo præcedens	294	42	51	66	44	14	2	18	45	44	1	32	6
	Supra Terg. præced. infor. ad Viam Lact.	295	45	19	63	6	48	6	7	50	47	5	2	5
	In Collo sequens	296	51	7	65	0	18	5	11	13	44	15	56	5
	Ad Pedem anteriorem sinistrum	297	27	41	70	56	0	4	18	26	39	20	55	6
	Ad Arm. sin. Ped. ant. præced. & sup.	298	9	19	67	18	0	6	32	31	42	44	2	5
	Ad Arm. sin. Ped. ant. sequens & inf.	300	10	15	67	26	48	8	42	27	42	4	46	6
	In Tergo	300	11	59	65	21	53	9	31	33	44	4	24	5
	Supra Tergum informis sequens	300	25	19	62	8	12	10	42	0	46	9	8	5
	In latere præcedens	300	22	15	66	18	48	9	34	15	43	4	26	6
	In latere sequens	301	55	1	66	33	0	11	7	52	42	29	40	6
	In Coxendice superior ad Ventrem	305	35	35	64	38	38	16	16	42	43	17	56	6
	In sinistro Pedé posteriori	305	48	13	69	54	48	14	22	34	38	13	25	5
	In Coxendice inferior	305	53	7	67	1	18	15	36	30	40	57	25	6
	In Femore	307	30	3	65	53	17	17	52	32	41	33	46	6
	Ad educationem Caudæ Australis	309	21	29	64	6	17	20	53	43	42	40	46	6

CATALOGUS FIXARUM.

65

In Constellatione VULPECULÆ & ANSERIS.

Ordo Tycho	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Magnitudo
		0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	
	Prima Caud. five, ad educ. Caud. Bor.	310 9 5	63 11 0	22 14 58	43 17 48 B	5
	In Pede dextro posteriori	310 45 21	68 54 0	20 21 53	37 44 3	6
	Ultima Caudæ	318 40 7	67 47 45	29 28 27	36 11 9	5

In Constellatione SAGITTÆ.

4	Duarum ad Occidentem Borealis	α 291 10 37	72 41 13	26 18 16	38 53 43 B	4
5	Australis	β 291 24 27	73 12 49	26 27 31	38 20 32	4
3	Mediarum inferior	δ 293 2 15	72 13 4	28 39 39	39 1 6	4
2	Mediarum superior	ζ 293 26 17	71 38 49	29 17 31	39 29 55	6
1	Ext. vers. Ori. vel ad Cuf. fin. Ped. ant. Vul.	γ 295 52 43	71 23 3	23 37 39	39 16 22	4

In Constellatione SCUTI.

	In limbo Scuti Occidentali superior	270 22 55	98 31 2	0 23 26	4 59 13 B	5
	inferior Neb.	272 32 34	104 23 35	2 29 22	9 5 24	6
	In Cruce Scuti Occidentali	274 14 6	98 25 3	4 19 14	15 1 29	4
	Orientalium inferior	276 0 22	99 20 13	6 3 34	14 2 25	5
	superior	276 6 30	98 15 47	6 15 42	15 6 33	5
	In super. limbo ad Cuf. Alæ Aquilæ	279 12 39	95 0 51	7 39 31	18 17 49	4
	In limbo Orientali Scuti	279 50 26	96 11 25	10 8 44	16 57 46	5

In Constellatione AQUILÆ.

11	Supra Caudam inferiorem media	277 44 29	69 43 8	10 2 1	43 31 0 B	4
12	inferior	277 58 29	72 7 3	10 5 31	41 6 27	4
	superior	280 7 15	67 43 13	13 22 11	45 18 50	5
	Caudam præcedentium inferior	280 49 50	78 5 15	13 11 41	36 20 31	6
10	Caudam proxime præcedentium superior	281 1 17	75 18 38	13 30 45	27 40 43	4
9	In Cauda	282 25 25	76 34 0	15 2 48	36 17 21	3
	Sub Cauda Aquilæ	282 45 57	79 25 43	15 4 58	33 24 34	6
	In educatione Caudæ præced. inferior	285 30 23	78 56 53	18 21 21	33 34 21	6
	superior	285 52 5	77 11 8	19 3 28	35 16 24	6
	In educatione Caudæ trium sequens	287 11 39	78 41 42	20 22 0	33 36 0	6
7	In Ala Austrina superior præcedens	289 21 35	83 16 6	22 3 29	28 45 44	4
8	inferior sequens	290 35 21	85 17 16	24 4 18	26 34 44	5
5	In Humero sinistro	γ 292 31 3	80 7 44	26 13 0	31 20 40	3
6	Parva supra Humerum sequens	π 293 12 31	78 53 38	27 16 0	32 26 19	6
3	Lucida in Scapulis	λ 293 32 19	81 57 44	26 58 59	29 21 33	1
4	Parva supra lucidam	υ 293 40 23	80 22 4	27 28 20	30 54 5	6
	Parva lucidam Aquilæ sequens	ε 294 25 0	82 19 23	27 53 28	50 34	5
2	In Collo, seu Pectore	δ 294 38 11	84 21 45	27 41 36	46 47 52	4
	Parva supra Humerum præcedens	ζ 295 6 11	79 14 55	25 26 49	32 42 38	6
1	In Capite	τ 296 54 11	83 34 50	20 39 27	7 34	6
	In Ala Bor. inferior præcedens	297 57 42	79 14 31	29 20 33	43 54	6
	In Ala Bor. superior sequens	ρ 299 36 47	75 47 21	5 21 53	34 8 30	5
	Rostrium Aquilæ	301 40 21	85 38 54	4 59 30	24 4 54	6

In Constellatione ANTINOR.

7	In Pede dextro præcedens	280 53 11	96 7 49	11 19 17	16 56 51 B	4
6	In dextro Pede sequens	λ 282 2 41	95 19 0	12 35 42	17 39 47	3
	In dextra Sura	φ 285 35 38	96 4 23	16 11 32	16 33 17	6
	Sub Brachio dextro	ψ 287 16 0	90 17 9	18 40 44	25 53 5	5
4	Dextrum Brachium	χ 287 5 23	87 28 55	18 53 54	54 28 2	2

In Constellatione ANTINOL.

Ordo Tychonicus	STELLARUM Denominatio.	Bayer's Char.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Mag. Hew.
			0	1	2	0	1	2	0	1	2	0	1	2	
	In dextro latere inferior		288	13	36	93	29	5	19	15	24	18	48	16	6
	In sinistro Crure		289	13	15	101	5	25	19	13	26	11	8	18	6
3	In Genu dextro	x	289	37	43	97	51	25	20	5	0	14	17	13	4
2	In dextro latere superior		289	46	41	91	57	0	21	6	34	20	6	54	4
	In sinistro Genu		293	4	23	101	30	34	22	57	53	10	10	13	5
5	In Pectore		293	46	47	89	46	44	25	42	19	21	37	27	4
	In sinistro Femore		294	2	23	99	1	34	24	19	58	12	27	59	5
1	Sinist. Brac. Tych. sinist. Manus	θ	298	26	11	91	44	56	20	11	15	18	49	6	3
	In Arcu inferior, seu prima		302	58	1	92	55	18	4	20	0	15	43	51	5
	In Arcu secunda		305	1	50	93	20	50	6	33	18	15	48	44	5
	In Arcu tertia		305	11	27	92	12	52	6	59	48	16	52	26	4
	In Arcu ultima		305	30	49	90	37	2	7	43	52	18	20	44	6
	In Sagitta præcedens		307	26	53	96	11	51	8	14	55	12	27	44	4
	In Sagitta sequens		308	29	41	96	42	56	9	6	17	11	42	37	5

In Constellatione CYGNI.

9	Extrema & suprema Alæ Boreæ	x	287	17	18	37	14	48	10	15	25	73	50	0	4
	Ad Genam		287	39	53	60	57	50	12	4	56	31	1	15	3
1	Rostrium	β	289	15	17	62	39	35	26	34	0	49	4	52	2
8	Alæ Bor. penultima, seu media	γ	290	14	27	38	59	0	13	15	53	71	29	6	4
2	In Capite	φ	291	29	3	60	32	49	0	14	50	50	43	12	5
7	Alæ Bor. antepenultima, vel infima	θ	291	47	53	40	32	22	13	57	16	69	39	5	4
	Informis in Via Lactæ præced. Coll.		293	2	0	52	40	3	5	56	24	57	59	23	5
	Infra Lucidiorem Colli		293	22	3	56	57	34	4	15	17	53	47	35	5
6	In Ancone Alæ Boreæ	z	293	32	31	45	41	38	11	30	30	44	27	0	3
3	In medio Colli	x	295	53	27	55	44	18	8	16	57	54	22	20	4
	Supra lucidiorem Colli trium præced.		295	59	19	52	18	38	10	19	38	57	36	3	5
	media		296	32	28	53	50	26	10	48	52	55	55	33	5
	sequens		298	23	17	54	55	0	12	4	52	54	30	43	5
	Sub Nova prima	h	299	13	25	54	5	0	13	40	8	55	4	0	5
	secunda	h	300	26	51	54	9	33	15	14	26	54	39	7	5
15	In Boreo Pede præcedens	o	300	42	39	44	12	22	23	28	53	63	41	45	4
16	sequens Bor.		301	15	23	43	15	47	25	13	50	64	0	0	4
27	Nova Pectoris		301	16	43	52	56	12	17	5	38	55	33	20	3
4	Pectus	γ	302	28	21	50	45	28	20	9	55	57	12	53	3
	Infor. sub Alæ Aust. Bor. præcedens	h	302	33	29	58	50	8	15	30	38	49	39	27	4
	Aust. Australis præced.	h	303	52	7	60	41	0	16	2	26	47	32	33	4
	Neb. sup. Caud. præced. in Ped. bor. ult.	ω	304	34	8	42	5	40	1	30	21	64	7	20	6
	Inform. sub Alæ Aust. Boreæ. sequens	l	305	14	33	55	50	0	10	20	48	51	40	30	4
5	Cauda	α	307	27	57	45	52	45	10	0	42	50	59	57	2
	Infor. sub Alæ Aust. Australis sequens	k	307	54	55	60	26	8	22	1	15	46	33	30	4
10	In Ancone Alæ Aust.	ε	308	6	53	57	13	52	23	1	00	49	28	30	3
11	In Prin. Alæ Aust. præced. supra Ancon.	λ	308	31	55	54	40	0	25	5	50	51	42	20	4
	In super. par. Ven. duar. præced.		309	16	34	47	11	6	1	45	6	58	10	47	5
	Infima Veneris, Caudam sequens		309	20	33	45	4	48	3	48	10	59	59	20	5
	In sup. par. Ven. duar. seq. int. Cau. & Ped. Aust.		310	17	26	46	50	56	3	16	45	58	6	57	5
13	In Australi Pede præcedens	ι	311	6	43	50	4	0	1	30	17	54	59	30	4
	In educatione Caudæ præcedens	f	312	5	48	43	44	16	8	31	45	50	7	53	5
	Neb. duar. supra Caud. seq. informis		312	10	5	36	54	40	17	30	48	55	36	40	6
	Int. Vo. & Ped. Aust. vel in Pr. Al. Aust. seq. par.		313	1	43	52	49	0	1	40	27	51	51	30	5
14	In Genu seq. seu par. in Aust. Pede sequens	ε	313	8	11	47	22	27	6	10	5	56	38	0	4
	In educatione Caudæ sequens		313	44	45	43	40	30	10	21	14	59	34	7	5

In Constellatione CYGNI.

Ordo	STELLARUM Denominatio.	Aster. Class.	Ascensio Recta	Distansia a Polo B.	Longitudo	Latitudo	Magnitudo
			0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	5 0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
12	Extrema Alz Aust.		314 35 43	61 5 23	28 21 20	43 47 8 B	3
17	In Vola Alz Aust. media	τ	315 18 43	53 19 56	3 35 0	50 35 12	4
	In Vola Alz Aust. infima	υ	315 58 53	56 27 46	2 35 39	47 21 57	4
18	In Vola Alz Aust. Borealis.	σ	316 2 19	51 57 31	5 43 49	54 32 53	4
	Infra Caud. & Ped. Aust. procedens	α	316 27 26	47 25 0	9 54 0	55 22 0	6
	Infra Caudam informis	ρ	320 18 11	45 51 22	15 31 32	55 14 0	5
19	In Cuspide Alz Aust.		322 13 9	62 42 46	5 45 45	53 36 13	3
	In Extremitate Caudæ Borealis.	π	322 24 7	40 18 47	23 38 45	58 54 50	5
	Aust.	π	323 33 54	42 12 56	22 32 40	56 57 59	5
	Ad Cusp. Alz Aust. sequent. superior		323 39 37	61 19 31	8 0 33	40 20 40	6
	inferior		324 25 43	62 41 46	8 2 31	18 49 2	6

In Constellatione LACERTÆ.

	In Pede sinistro posteriori		329 48 35	51 54 8	120 15 13	46 21 22 B	5
	In Collo		330 0 13	44 23 0	0 29 18	51 26 35	5
	In Extremitate Caudæ		330 18 53	53 50 58	119 23 40	44 27 48	5
	In Capite		330 56 31	43 3 0	1 10 17	53 21 20	6
	In anteriori dextro Pede		331 43 37	45 7 0	27 36 0	51 21 0	5
	In Ventre		333 52 51	48 31 58	26 50 0	47 25 0	5
	In educatione Caudæ præced. seu prima		335 12 57	52 3 18	25 22 0	44 5 6	6
	In educatione Caudæ tertia		336 1 29	52 38 48	25 43 20	43 15 4	6
	In Dorso		336 22 29	47 27 22	29 54 57	47 32 45	5
	In educatione Caudæ secunda		336 34 15	51 29 8	27 2 0	44 2 10	6

In Constellatione CEPHEL.

	In Pallio Aust. ad dextrum Brachium		396 46 23	33 5 31	5 22 29	74 18 0 B	6
	In Pallio Borealis		397 23 53	32 15 13	8 25 46	74 41 15	6
	In Fimbria Pallii ad dext. Brachium		398 22 44	34 23 42	8 57 51	71 37 48	4
10	In dextro Crure	κ	304 45 21	13 20 53	28 25 57	55 26 43	4
8	In dextro Cubito	θ	305 54 0	28 7 0	0 31 14	73 57 23	4
	Manus dextra	κ	309 13 31	33 34 13	120 12 9	69 12 0	5
7	In dextro Lacerto		309 42 8	29 21 47	0 32 71	44 48 4	3
2	Humerus dexter	α	317 34 15	28 50 22	8 9 30	58 55 11	3
	Sub dextro Humero in Axilla		318 15 25	26 28 25	14 18 41	59 55 24	6
	In dextro latere		320 28 57	16 14 45	20 26 18	69 57 22	6
1	Cingulum	β	320 59 35	20 55 7	0 58 30	74 7 12	3
	Supra dextrum Humerum propior		322 6 49	29 36 37	9 58 26	66 40 35	6
	Supra Coronam		322 12 57	34 0 3	2 10 15	63 45 0	6
	Supra dextrum Humerum remotior		323 57 13	30 21 57	9 53 17	65 29 15	5
	Cinguli secunda		324 9 1	20 16 33	3 47 49	70 14 38	5
	tertia		324 40 55	19 27 18	6 16 27	70 17 55	6
	In Corona		325 47 35	35 31 43	1 58 0	64 14 0	6
9	Inter Scapulis	ε	328 31 33	27 0 53	19 34 24	65 43 30	5
	Cinguli quarta		328 33 28	18 26 0	5 44 69	21 0	6
	In Collo		328 43 36	29 19 43	15 17 22	64 16 40	5
	Parva ad Boream in Tiara tertia		328 59 27	32 55 17	9 21 2	61 48 10	6
4	In Tiara secunda	ζ	329 45 3	33 25 36	9 20 45	61 10 0	4
5	prima	η	330 41 27	34 36 16	0 26 30	59 37 33	4
	Ad Stel. Polar. inter Pedes Borealis		330 59 2	2 11 0	125 0 32	67 28 25	5
	Cinguli quinta		331 9 1	19 16 24	8 33 23	68 18 5	5
	In Tiara duar. suprem. præcedens		332 9 14	39 42 45	3 21 20	55 32 0	5
6	Ad Frontem	δ	334 10 9	33 16 6	13 2 0	59 32 52	4

In Constellatione CEPHEI.

Ordo	STELLARUM Denominatio.	Ascensio Recta	Distantiā a Polo B.	Longitudo	Latitudo	Magnitudo
Systema		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
	In Tiara trium media	334 22 35	41 24 0	T 3 32 30	53 18 50	4
	In Tiara duar. suprem. sequens	335 52 33	40 9 0	6 0 0	53 42 35	5
	Supra sinistrum Humerum	336 42 41	28 7 20	22 41 52	52 0 27	5
	Sub Cingulo Borealis	336 58 58	18 5 20	13 8 11	56 56 40	6
	In Fimbria Tunice trium sequent. super.	337 48 42	5 37 0	15 59 20	58 1 40	6
3	In sinistro Humero	339 37 41	25 34 0	T 28 39 37	52 24 30	4
	In Fimb. Tunice præced. præced.	341 35 49	8 36 45	II 7 57 35	57 45 0	6
	In Sceptro	343 9 0	31 30 10	T 20 43 9	56 43 43	6
	In Fimb. Tunice præced. sequens	343 20 51	7 26 30	II 11 2 56	57 20 40	6
	Sub Cingulo Australis	344 10 9	16 26 0	18 52 39	55 33 15	6
	In sinistro Cubito	346 21 21	23 43 25	5 55 51	51 19 33	5
	In Fimb. Tun. trium sequent. media	350 41 36	4 43 0	II 18 32 10	56 47 55	6
11	In sinistro Crure	351 29 3	14 14 57	25 24 49	54 36 25	3
	In sinistro Brachio ad Sceptrum	352 55 22	24 4 20	8 9 35	59 0 53	5
	Inter Pedem sinist. & Scabel. Cassiop.	6 27 42	16 58 53	24 50 2	59 44 47	6
	In Fimb. Tun. trium sequent. inferior	7 39 20	5 33 40	II 16 46 30	55 10 10	5
	In Tibia sinistra superior	11 18 19	12 9 50	4 12 17	51 38 10	6
	Sub Fascia præcedens	23 44 14	14 17 51	4 40 18	58 6 0	6
	In Tibia sinistra inferior	27 54 45	10 11 0	11 33 15	50 24 23	6
	Sub Pede sinistro in Fascia præcedens	35 29 30	12 22 20	10 53 37	57 47 27	7
	Sub Fascia sequens	39 20 45	12 49 51	10 38 39	56 5 53	6
	Sub Pede sinistro in Fascia media	49 1 8	10 23 12	17 7 55	57 40 6	6
	Sub Pede sinistro in Fascia sequens	57 51 41	9 41 24	20 18 0	57 53 50	6
	Ad Stellam Polar. inter Pedes Australis	70 51 21	2 50 30	27 53 42	52 48 0	6

In Constellatione URSE MINORIS.

	Sub Capite præcedens Borealis	132 8 24	21 29 27	13 36 49	74 4 27	5
	Sub Capite sequens Australis	136 41 46	22 48 45	6 19 27	3 18 5	5
	In Capite	148 31 17	19 0 36	12 28 29	69 12 5	5
9	Ad Humerum altera	213 0 41	10 54 24	28 6 37	19 0 6	6
8	proxima	217 19 31	12 38 50	3 3 33	71 23 24	6
6	Humerus	223 5 41	14 26 9	8 21 8	72 56 23	2
7	In Pectore	230 34 40	16 56 47	16 36 31	75 14 30	3
4	In Dorso	239 26 40	11 11 50	22 32 21	75 4 30	4
5	In Latere, sive Ventre	246 48 36	13 33 0	25 52 36	77 47 43	5
3	Prima Caudæ	260 40 20	7 30 15	4 21 57	73 51 8	4
2	Media Caudæ	289 18 17	3 38 30	26 29 40	69 54 0	4
1	Polaris	7 22 8	2 30 30	23 51 22	66 3 0	2

CAMELOPARDALI.

	In educatione Caudæ, seu prima	42 39 25	25 40 40	II 3 7 19	45 10 56	5
	Mediarum in Cauda superior	45 43 3	31 10 17	2 3 0	39 33 23	4
	inferior	45 45 54	32 21 7	1 32 3	38 25 43	4
	Ultima Caudæ	46 7 23	35 45 27	0 17 41	35 10 47	5
	Inter Tergum & primam Caudæ	48 47 20	19 48 27	9 52 14	33 40 5	5
	In Femore dextro superior, seu prima	49 5 51	27 49 34	5 43 54	2 44 5	5
	In Coxæ præcedens	49 45 7	25 34 56	7 9 54	4 54 5	5
	In Femore dextro secunda	51 52 51	28 1 27	7 13 59	41 27 30	5
	tertia præcedens	52 16 14	30 3 33	6 36 19	29 28 18	6
	quarta	54 52 5	31 33 50	7 38 37	38 10 6	6
	quinta sequens	56 49 22	29 15 9	9 42 13	39 34 7	6
	In Pede dextro posteriori	57 35 37	37 34 25	7 38 51	21 26 0	6

CAMELOPARDALL

Ordo	Stellarum Denominatio.	Asteris- Reſta	Diſtans a Polo B	Longitudo	Latitudo	N. & H.
Ordo		0 1 2	0 1 2	0 1 2	0 1 2	
In Coda ſequens		57 42 3	25 44 0	11 32 46	42 49 28	6
Supra Genu poſter. ſiniſt.		58 13 45	30 5 23	10 16 8	38 34 15	6
Inter Pedes poſteriores		62 1 46	34 15 3	11 25 39	30 26 36	5
Infra Genu ſiniſtro in Pedis poſter.		64 57 23	33 54 7	13 26 54	34 1 34	5
In Ventre		65 2 57	24 21 0	16 9 47	43 20 28	4
In Tergo		66 45 13	16 34 19	20 0 0	50 34 38	6
Supra Terg. ſive in Cul. Ped. ſiniſt. Cephei		66 49 17	11 17 0	22 6 45	55 50 43	5
Ungula ſiniſtra Pedis poſter.		67 33 43	36 51 0	14 32 14	30 50 48	4
Inter Pedes anteriores		85 13 17	24 42 45	27 19 12	41 48 36	6
In Pede ſiniſtro præcedens		85 32 56	30 33 16	27 45 12	45 58 26	5
In Collo quarta		86 41 48	10 12 24	28 56 45	56 18 3	6
In Collo quinta, ſeu in duob. Colli		92 24 39	12 42 17	30 0 52	50 53 47	50
In Collo ſecunda Borealis		93 31 5	7 7 15	0 51 30	59 23 7	6
In Pede ſiniſtro inferior		94 4 2	22 3 2	2 8 32	44 26 38	5
media		94 46 36	20 37 11	2 24 35	45 59 44	5
In Collo tertia Australis		104 0 55	9 35 0	4 15 30	57 6 33	6
prima		140 29 34	3 55 0	6 51 30	63 50 25	6
Ad Gemam		145 39 58	5 45 20	10 27 06	51 15 6	6
Ad Caput, ſeu ſupra med. Cau. Drac. Bor.		178 54 41	10 29 30	24 43 10	64 12 5	5
In Cervice, ſeu dextra Aure		192 9 54	4 45 30	11 50 30	67 2 58	

In Constellatione HERCULIS.

28	Ad dextrum Calcaneum	229	50	37	47	57	4	27	53	7	57	11	20	4
27	In dextra fura infima	235	15	0	46	37	12	27	53	27	20	60	13	43
	In exuviis supra Coron. precedens	236	58	29	55	36	4	12	27	41	33	23	25	5
25	In dextra fura, vel pos. in Tibi. præced.	238	2	53	42	59	38	3	30	17	64	21	20	4
4	In dextro Cubit. feu med. dext. Brachii	238	14	5	71	58	0	20	59	13	37	19	28	4
24	In dextra Tibi sequens	239	31	51	44	9	8	6	48	37	53	49	15	4
	In exuviis Leonis supra Coron. sequens	240	29	1	55	14	4	16	36	28	53	54	12	5
3	Penultima dextri Brachii	241	46	1	70	0	33	24	29	6	40	4	10	3
	In dextro latere	242	12	39	58	14	56	21	4	7	50	53	2	5
	In dextra Coxa	242	22	55	55	23	4	19	12	47	54	16	10	5
23	In dextro Poplite, vel Suræ	242	23	27	42	51	12	9	33	5	55	52	15	4
	Ultima dextri Brachii	243	25	43	75	8	8	26	47	23	35	14	11	5
2	Dexter Humerus	243	33	17	67	44	17	26	18	34	42	45	43	3
	In Clava Herculis	244	11	7	77	42	47	29	28	45	33	5	27	5
26	In dextro Femore præced. Australis	244	21	41	47	18	6	16	40	32	62	23	17	5
	Ad Podicem in Clune dextro	244	49	32	51	45	42	20	27	32	58	19	27	5
22	In dextro Femore Borealis	245	46	23	46	49	42	18	22	38	63	12	45	4
11	In Tergo	247	9	29	57	43	36	26	48	7	53	10	12	4
	Inter Ped. super. præced. in exuv. Leon.	247	30	0	42	23	18	14	24	56	39	32	42	5
21	Ad Podicem in Clune sinistro	247	51	9	50	23	16	24	1	16	60	22	23	3
	Inter Humeros	249	25	21	64	42	45	7	2	19	26	46	49	5
	Inter Ped. infer. præced. exuv. Leon.	249	46	49	43	23	32	21	44	8	57	26	5	5
	In Colla	250	3	35	71	5	16	4	49	10	40	41	12	6
13	In sinistro latere	251	50	38	68	31	16	3	24	40	53	19	32	6
	In Vert. trium Nebul. infer. major.	252	24	3	76	41	23	8	48	20	35	31	33	3
5	Caput	254	47	27	75	9	13	11	24	18	37	22	19	3
1	Sinister Humerus	255	15	21	64	43	28	9	58	50	47	45	22	3
	In sinistro Femore præcedens	255	48	1	52	43	16	7	15	56	59	39	53	4
	In exuv. Leon. omn. sup. ad Vent.	256	28	31	55	53	30	9	22	42	50	38	50	5
14	In sinistro Femore media	256	28	49	52	16	30	8	9	50	12	23	4	5
	Parvula ad sinistrum Humerum	256	42	35	65	4	26	12	0	36	47	26	0	5

In Constellatione HERCULIS.

Ordo Tychon.	STELLARUM Denominatio.	Regr. Clav.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo.			Mag. Hec.
			0	1	2	0	1	2	0	1	2	0	1	2	
15	Inger Ped. trium seq. in exuv. Leonis	δ	257	39	57	43	10	20	5	35	23	69	17	22	6
	In sinistro Femore ultima		258	0	27	52	28	0	10	37	0	60	14	0	4
	In sinistro Brachio		259	16	33	63	32	0	15	9	47	49	25	15	4
18	Ad Calcaneum finistrum	κ	259	18	4	41	29	58	7	37	28	71	10	33	6
19	In Talo finistri Pedis	γ	261	52	11	41	14	48	12	39	39	71	46	7	6
17	In sinistra Tura	ι	262	27	23	43	45	44	15	4	32	69	21	5	3
7	In exuviis Leonis praecedens	μ	263	16	7	62	2	26	20	28	51	51	14	30	4
20	Nebul. in Extremitate finistri Pedis	ζ	264	52	46	41	50	50	19	12	16	71	27	54	Neb.
	In sinistra Tibia Nebulosa		265	38	37	51	54	10	22	18	29	63	28	30	
10	In exuviis Leonis mediar. Australis	ε	266	7	51	60	37	55	24	25	8	52	47	52	4
16	In sinistro Genu	θ	266	8	35	52	40	23	23	42	56	60	45	0	3
9	In exuviis Leonis mediar. Borealis	ν	266	23	19	59	41	42	24	43	25	53	44	42	4
8	In exuviis Leonis ultima	ο	268	35	47	61	12	0	27	59	22	52	17	45	4
	In Manu sinistra	τ	271	56	49	61	13	20	22	47	19	52	15	43	5

In Constellatione DELPHINI.

1	In Cauda	ε	304	14	37	79	45	45	9	21	22	29	9	20	B	3
9	Sub eodem Apice praecedens	κ	304	27	49	78	3	16	10	6	48	30	45	54	6	
8	Ante Apicem Rhombi Occidentalis	ζ	304	50	31	76	24	10	11	2	45	32	15	31	5	
2	Sequens Caudae	ι	305	17	13	79	43	46	10	30	17	28	56	12	6	
4	Apex Rhombi Occidentalis	β	305	23	33	76	29	53	11	37	18	32	1	17	3	
10	Sub eodem Apice sequens	θ	305	44	31	77	49	26	11	35	0	30	39	15	6	
3	In ejectione Caudae superior	κ	305	44	41	81	1	11	10	36	48	27	34	23	6	
5	Mediarum in Rhombo Borealis	α	305	55	39	75	12	10	12	38	16	33	7	27	3	
6	Errundem Australis	δ	306	51	59	76	3	45	13	23	18	32	2	36	4	3
7	In Capite	γ	307	42	47	75	1	23	14	40	20	32	48	17	3	
	Media Caudae inferior	ν	307	45	35	85	10	8	11	32	6	23	2	40	5	
	Delphinum seq. media	π	309	52	45	78	38	6	15	47	52	28	44	6	6	
	Ad Mandibulam superior	ρ	309	53	13	77	29	28	13	46	28	29	49	5	6	
	Delphinum sequens infima	σ	310	31	33	80	24	48	15	53	56	26	50	56	6	

In Constellatione EQUULEI.

	Ante Caput informis	ε	310	33	5	86	56	48	13	54	8	20	34	35	B	5
3	In Ore praecedens	γ	313	23	35	81	8	36	18	43	23	25	17	30	4	
4	sequens	δ	314	28	35	81	18	8	19	44	28	24	50	3	4	
1	In Capite praecedens	α	314	42	9	86	5	48	12	23	50	21	51	3	3	
	sequens	β	316	26	41	84	33	53	20	39	50	21	7	38	4	
	In Extremitate Auris	γ	316	50	23	94	49	0	17	49	13	11	14	11	A	6

In Constellatione PEGASI.

21	Inter Os & Pedem praecedens	ε	316	37	11	71	35	8	35	37	57	33	20	23	B	4
22	Ad fin. Ung. prae. vel in Ext. Caud. Vulp.	ζ	318	40	7	67	47	45	29	28	27	36	11	9	5	
	Os	η	321	52	23	81	26	0	27	10	57	22	11	0	3	
23	Inter Os & Pedem sequens	ε	322	7	1	74	7	8	30	19	47	29	6	38	4	
8	Ad sinistram Ung. vel in Pede sinistro	κ	322	20	17	65	49	24	4	16	53	43	7	4	6	
	In sinistro Pede	ι	322	37	47	68	32	18	3	17	50	34	6	44	4	
	Ad Pedem finistrum	λ	324	23	29	65	36	45	6	31	30	36	10	3	6	
3	Ad Oculum obscura praecedens	ι	327	8	17	86	32	0	0	35	47	15	45	4	5	
9	Ad sinistram Genu	τ	327	49	0	66	14	46	9	42	30	34	19	11	4	

CATALOGUS FIXARUM.

71

In Constellatione PERGASI.

Ordo	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B.	Longitudo	Latitudo	Mag. Hec.
		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
2	In Capite ad Oculum sequens	328 14 7	85 24 37	2 4 23	16 25 11	4
10	Ad dextram Ungulam	328 43 35	58 24 40	14 52 51	41 2 53	5
	Ad Arem Pegni præcedens	330 49 35	85 50 48	4 25 5	15 5 14	6
20	Ad inferiorem Maxillam	331 13 3	79 26 23	7 16 5	20 34 24	5
	Ad Armm finistram	331 24 23	63 18 47	14 48 3	35 37 16	6
	Trium Neb. ad Aur. Peg. sup. major seq.	322 38 45	86 56 43	5 44 4	13 24 9	6
6	Lucida Colli	336 7 41	80 52 28	11 26 18	17 44 49	3
14	Parva prope Genu dextrum	336 27 13	62 23 28	20 14 24	34 29 9	5
13	Dextrum Genu	336 47 3	61 29 53	21 2 12	35 9 7	3
7	Sequens proxime lucidam Colli	337 25 43	79 30 18	13 14 27	18 31 4	5
11	In Pectore præcedens	337 32 53	68 10 8	18 21 46	38 50 32	4
12	sequens	338 25 33	67 8 53	19 41 37	29 25 24	4
5	In Collo dextrum Austrarium superior	338 54 51	81 53 53	13 41 0	15 44 34	6
18	inferior	339 30 33	82 55 23	13 50 12	14 34 3	6
	Scheat	341 50 19	63 42 34	24 40 0	11 10 21	2
17	Marcab	341 57 29	76 34 7	18 46 1	19 27 37	2
	In quad. sub Marc. Bor. præ. sc. in Juba	342 27 41	82 22 8	16 50 34	13 56 21	5
	Australis præcedens	343 8 25	83 6 30	17 10 5	12 59 43	6
	Borealis sequens	343 17 0	81 57 53	17 46 40	13 59 27	6
	Australis sequens	343 41 41	82 5 8	17 42 36	12 48 2	6 5
15	In media Ala præcedens	345 58 35	68 5 49	26 20 3	25 34 46	6
	In Ventre Borealis præcedens	346 21 53	60 0 0	2 54 0	32 40 45	6
	In Ancone Alæ præcedens	346 27 21	79 29 48	12 45 3	15 0 46	6
	In Ventre Borealis sequens	347 4 35	59 26 0	1 50 0	32 53 50	6 7
16	In media Ala sequens	347 6 7	68 27 24	27 14 0	24 48 20	6
	In Ancone Alæ sequens	347 59 5	79 4 8	23 21 46	14 47 54	5
	In Ventre Australis	349 17 47	60 29 39	3 14 0	31 4 17	6
19	Extrema Alæ, Algenib	358 58 3	76 39 51	4 27 44	12 37 18	2
	In Cuspide Alæ dextræ	4 51 27	76 37 1	9 49 23	10 20 4	6

In Constellatione CETI.

	In quadrato Caudæ super. præcedens	355 23 38	95 24 0	23 37 20	3 7 31	5
	sequens	356 5 44	94 52 0	24 28 0	2 54 11	5
	infer. præcedens	356 8 2	97 50 58	23 19 30	5 39 33	5
4	In Triang. Caudæ præcedens	356 32 46	109 8 21	19 2 16	16 8 45	4 5
	In quad. Caudæ infer. sequens	356 58 38	97 31 43	24 13 20	5 42 1	4
	sequent. superior	358 25 14	107 17 25	21 38 45	15 15 19	5
	inferior	359 40 26	114 44 23	21 6 15	18 48 48	5
17	Borealis Caudæ	0 32 13	100 40 23	26 11 28	9 59 32	3
18	Lucida Caudæ Australis	6 37 3	109 49 12	27 48 18	20 44 35	2
	Trium ad Caudam primæ	6 46 7	102 24 42	1 11 0	14 4 0	5
	secunda	8 47 41	122 26 0	2 34 30	14 41 32	5
	ultima	9 51 37	103 3 13	3 44 30	15 52 56	5
16	In Dorso Occidentalis	12 51 55	101 57 34	7 0 15	16 4 29	3
	In Gibbo Dorfi	14 19 15	99 42 18	9 17 48	14 35 9	5
15	In Dorso Orientalis	16 46 11	93 55 20	11 30 0	15 44 45	3
	Mediam Ventris præcedens	17 14 0	106 19 44	9 12 30	17 26 5	5
12	Vet. et al. med. d. et. seu pot. sequ. se. Venonad.	22 4 35	107 40 19	13 13 9	24 54 34	3
	Boream Ventris præcedens	23 12 49	102 18 49	16 37 15	26 10 5	5
14	Boreæ & supremæ Ventris sequens	23 40 7	101 59 23	17 11 33	18 41 3	4
13	Infima in Ventre	26 1 45	112 40 34	34 41 45	30 59 56	4
	In Service superior, sub Nado Lini	26 29 5	91 32 20	23 59 51	11 40 46	6

In Constellatione CETI.

Ordo	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Magnitudo
Tycho		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12
7	In Occipite	28 45 13	97 15 8	29 17 40	4 16 35 A	4
	Præced. Novam, seu in Cervice superior	28 53 9	93 52 44	25 24 35	14 43 48	6 7
	Nova in Collo Ceti	30 32 49	94 30 0	26 47 0	15 54 16.	2 3
	In Collo Ceti Borealis	31 2 9	91 5 50	28 29 45	12 53 40	6
	Australis	31 14 25	92 24 28	28 13 7	14 11 35	6
	In Vertice	31 42 47	99 3 43	2 40 37	3 35 24	6
8	In quad. Pectoris præced. Borealis	32 26 17	103 51 52	24 59 45	25 18 19	4
5	In Fronte Occidentalis	32 31 59	83 3 50	2 43 13	5 51 53	4
	Ad Oculum præcedens	33 32 1	90 42 52	1 32 17	12 3 24	6
	Genam præcedens	33 44 57	92 38 8	0 34 0	15 16 45	6
9	In quad. Pectoris præced. Australis	34 2 43	106 41 52	25 25 0	28 30 42	4
21	Ad Oculum sequens	34 30 51	85 53 38	3 38 10	9 11 30	4
4	Ad Genam	35 30 17	91 7 21	2 48 23	14 27 3	3
11	In quad. Pectoris sequens Borealis	35 51 23	103 17 42	28 39 20	25 59 30	3
3	Media in Ore	36 25 29	91 48 37	4 42 0	12 0 0	3
6	In Fronte Orientalis	36 58 37	82 17 38	7 9 4	6 35 24	4
10	In quad. Pectoris sequens Australis	37 2 13	105 17 22	29 2 40	28 15 50	3
1	In Rostrum	40 23 13	82 26 18	10 21 5	7 47 15	4
19	Lucida Mandibulae	41 9 25	92 44 2	9 35 7	12 37 6	2 1
	Sub Rostrum	45 26 9	87 53 25	13 35 26	14 29 23	5
	Supra Linguam	49 57 13	90 41 40	17 17 48	18 26 46	4
	Sub Lingua præcedens	50 55 54	96 12 10	16 41 34	24 0 43	6
	Sub Lingua media	54 21 35	93 58 30	20 55 18	22 45 45	6
	sequens & ultima	56 6 5	92 31 10	23 8 37	21 47 0	6

In Constellatione ERIDANI.

23	In quarto flexu Borealis	37 19 25	110 0 0	27 19 40	32 44 31 A	4
24	Australis	38 55 7	112 22 18	27 53 47	35 30 9	4
11	In tertio flexu	40 0 41	100 13 51	4 2 3	24 31 42	3
12	A secundo flexu quinta	41 37 7	98 54 56	6 10 2	23 49 4	4
25	Post flexuram quartam, prima	41 50 53	114 56 32	29 55 3	38 56 38	4
	Sub Eridano ad Pedem dext. Ceti	44 25 55	120 15 25	29 49 20	44 41 14	3
13	A secundo flexu quarta	44 54 28	100 5 56	9 8 20	25 58 34	3
26	Post quartam flexur. secunda	46 4 53	112 57 25	5 19 27	38 28 47	4
10	A secundo flexu tertia	49 16 33	100 57 38	13 32 46	27 47 14	3
27	Post quartam flexuram tertia	49 43 45	112 44 53	9 28 42	39 26 20	4
9	A secundo flexu secunda	51 47 49	100 56 18	16 8 14	28 47 53	3
8	prima	52 34 33	103 11 40	16 14 46	31 10 42	4
28	Post quartam flexuram quarta	53 8 47	114 14 20	12 44 15	41 52 22	4
29	quinta	53 33 59	115 0 43	12 53 32	42 43 46	5
30	sexta	54 57 5	114 36 28	14 41 18	42 44 38	4
7	In secundo flexu infima	55 33 33	104 28 23	19 7 7	33 12 2	3
31	Post quartam flexuram septima	56 27 27	114 58 16	16 18 54	43 30 38	4
15	A flexu primo tertia	58 51 53	97 43 52	24 43 3	27 29 37	4
14	quarta	59 36 37	101 6 42	24 37 50	30 57 12	5
16	secunda	59 57 35	98 12 35	25 47 14	28 12 29	4
17	prima	61 43 51	94 33 3	28 26 0	25 1 10	5
6	In primo flexu	64 53 21	94 3 53	2 7 6	15 9 0	4
5	Infima in quarta	67 10 3	93 52 54	4 37 31	25 23 33	4
4	tertia	69 3 53	96 3 30	6 18 17	27 51 12	5
3	secunda	71 21 45	97 41 16	8 35 26	29 48 57	5
2	Clara in principio	72 48 53	95 32 24	10 33 52	27 53 27	3
1	Infima in principio	73 16 41	99 11 52	10 31 31	31 34 36	4

In Constellatione ORIONIS.

Ordo	STELLARUM Denominatio.	Borealis.	Ascensio Recla	Distantia a Polo B	Longitudo	Latitudo	Mags. Hess.
Typus.			0 1 2	0 1 2	0 1 2	0 1 2	
24	In limbo Clypei sexta		67 52 39	83 39 45	11 7 9	15 25 31	A 4
23	quinta		68 3 29	81 42 15	7 38 52	13 51 7	4
25	septima		68 18 25	85 0 16	7 22 41	16 49 6	4
19	suprema	o	68 22 57	76 20 13	8 47 32	8 15 39	5
22	quarta	π	69 5 7	80 24 56	8 52 36	12 23 45	5
21	tertia	λ	69 8 23	79 10 18	9 6 50	17 10 26	6
26	octava	π	69 9 41	88 7 46	7 45 45	20 2 8	4
20	secunda	o	69 22 1	77 1 16	9 39 5	9 4 38	5
27	infima		70 15 27	88 49 16	8 48 25	20 52 55	5
32	In sinistra Mano precedens	γ	71 19 31	75 5 23	11 49 6	7 25 15	5
31	In sinistro Cubito Australis	ι	72 24 11	81 59 28	11 59 39	14 24 2	6
31	Borealis	β	72 26 31	80 28 0	12 2 27	13 2 14	6
46	In sinistra Mano sequens	γ	72 36 17	74 51 38	13 5 1	7 20 50	5
50	In imo limbo Orientali	φ	73 56 23	87 35 25	12 52 39	20 8 38	5
37	Rigel	β	74 19 0	79 4 8	14 16 18	11 42 13	6
38	Prope Rigel, vel in Pede finit. super.	τ	74 35 35	98 36 18	12 7 26	31 9 26	1
44	Sub finit. latere, in Coxa precedens		75 19 47	97 18 2	13 8 50	29 57 0	4
42	Sub sinistra Axilla prima	μ	76 8 1	90 45 18	14 50 54	23 21 56	5
5	Humerus finit.	ν	76 14 9	86 48 43	15 23 32	19 37 12	6
43	Sub sinistro latere, in Coxa sequens	ρ	76 45 13	83 59 48	16 13 25	16 52 11	2
45	In sinistro latere	χ	76 47 55	91 9 28	15 31 34	24 0 15	6
31	In Manubrio Ensis	η	76 48 37	91 38 12	15 49 32	21 20 12	5
39	Prope Rigel, vel in Pede finit. inferior	ε	76 51 43	92 43 18	15 25 24	25 33 48	3
18	Sub sinistra Axilla secunda	ζ	76 55 51	98 7 30	14 52 12	30 56 47	5
6	Parva juxta sinistrum Humerum	α	77 15 43	87 14 23	16 25 58	20 8 46	5
17	Sub sinistra Axilla tertia	η	78 10 7	84 20 36	17 39 28	17 20 24	5
38	In Crista Galeæ inferior	θ	78 23 21	87 2 48	17 38 42	20 3 15	6
35	Cinguli prima	υ	78 29 43	75 55 0	18 45 29	8 58 31	6
2	Inter Pedes	φ	78 40 17	90 33 59	17 37 26	23 35 7	2
1	In Capite precedens Australis	Φ	78 54 39	97 35 33	17 12	0 30 36	17 4
16	Borealis	λ	79 3 33	80 45 19	18 52 34	13 50 10	5
3	Sub sinistra Axilla quarta		79 7 41	80 19 26	18 58 42	13 24 48	4
33	In Capite sequens	Φ	79 7 45	86 29 22	18 29 24	19 32 34	6
34	Media in Ense	θ	79 34 11	80 55 23	19 22 5	14 2 39	5
34	Infima in Ense	ι	79 39 21	95 37 34	18 14 40	28 42 33	3
29	Cinguli secunda, seu media	ε	79 44 27	96 10 43	18 17 21	29 16 1	3
32	Suprema in Ense	ε	79 45 15	91 38 14	18 43 40	24 32 26	2
13	In Crista Galeæ superior	ω	79 46 41	95 4 34	18 25 50	28 10 17	5
41	Sub sinistra Axilla quinta	σ	80 7 5	73 40 24	20 27 4	6 51 12	6
36	Quæ sub ultima Cinguli	d	80 20 1	86 7 0	19 46 37	19 16 44	5
30	In Vagina prima & superior	λ	80 35 33	92 48 50	19 21 8	25 57 56	4
47	Cinguli ultima	ζ	80 38 7	97 28 13	19 11 39	20 37 25	5
40	In Dorso	α	80 55 51	92 8 20	19 57 50	25 19 42	2
12	Pes dexter	κ	81 14 55	88 41 30	20 33 51	21 54 37	5
48	In Clava precedens	ζ	82 55 47	99 48 50	21 40 26	33 6 54	3
4	In dextro latere	α	83 35 3	69 49 8	23 58 13	3 11 24	5
49	Humerus dexter	α	83 42 13	88 15 14	23 13 43	21 36 38	9
4	In Vagina secunda		84 12 23	82 40 45	24 1 10	16 2 52	1
7	In Clava inter media		84 53 0	99 35 8	23 58 56	32 59 0	6
14	Ad dextrum Larus		84 58 12	69 47 37	25 17 0	3 13 0	7
49	In Vagina tertia	μ	85 23 23	89 30 0	24 59 36	22 55 29	5
7	Parva juxta dextrum Humerum	ν	85 44 47	99 33 31	24 59 50	37 59 24	6
14	In Clava sequens	ν	85 57 23	80 22 30	25 53 39	13 49 22	4
			85 58 40	69 54 8	26 12 4	2 21 19	5

In Constellatione ORIONIS.

Ordo Dignitas	STELLARUM Denominatio.	Ascensio Recta	Distantia a Polo B	Longitudo	Latitudo	Magnitudo
		0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	5 0 1 2 3 4 5 6 7 8 9 10 11 12	0 1 2 3 4 5 6 7 8 9 10 11 12	
	In Vagina quarta	86 30 34	100 37 36	125 51 49	34 4 54 A	6
10	In dextra Manu inferior praecedens	87 4 5	75 13 50	27 7 57	8 42 24	5
11	superior praecedens	88 8 29	73 49 26	28 12 0	7 19 15	6
9	inferior sequens	88 12 25	75 44 51	28 14 23	9 14 32	5
12	superior sequens	88 57 41	73 48 26	28 59 40	7 18 33	6
8	In dextro Brachio	89 16 53	77 39 38	29 17 4	11 9 52	6
	In Cuspide Vaginae, seu ultima	89 31 45	100 36 38	29 26 28	34 7 0	6
	In dextro Cubito	89 39 47	80 1 23	29 39 32	13 31 41	6

In Constellatione LEPORIS.

	Ante Leporem praeced. media	65 43 43	104 57 34	11 0 35 43	36 0 49 A	4
	suprema	65 46 39	102 46 0	1 11 18	33 52 27	5
	inferior	66 25 29	110 18 19	0 0 24	41 22 47	6
6	Extrema Pedum priorum	72 50 1	112 49 36	7 22 43	44 59 18	4
1	Praecedentis Auris superior	74 9 27	102 16 47	11 3 25	34 44 46	5
5	Oculus	74 27 23	106 37 12	10 41 53	5 8	4
2	Praecedentis Auris inferior	74 35 53	103 20 52	11 24 25	35 51 40	5
4	Sequentis Auris inferior	76 2 55	103 31 32	13 6 49	36 12 46	4
3	superior	76 6 45	102 40 2	13 12 32	35 22 56	5
8	In Armo sinistro	78 27 13	111 1 4	14 57 57	43 55 14	3
7	In medio Corpore	79 28 43	108 4 22	16 41 0	41 5 28	3
9	In Pede poster. praeced. Aust.	82 50 23	112 49 4	20 28 8	46 5 8	4
	sequens Boreal.	84 14 57	110 54 30	22 29 22	44 15 50	4
10	In Spina Dorsi praecedens	85 55 51	104 56 50	21 17 33	38 14 20	4
11	medis	85 16 21	104 14 21	24 12 12	37 38 58	4
12	ultima	87 45 17	104 55 6	27 13 52	38 24 10	4

In Constellatione CANIS MAJORIS.

12	Extrema Pedis posterioris	91 53 51	119 53 26	2 45 30	53 22 40 A	2
7	Extrema sinistri Pedis prioris	91 59 5	107 46 48	2 30 53	44 16 8	2
16	In Armo sinistro praecedens	94 30 15	113 9 48	6 1 44	46 34 30	5
	sequens	95 16 23	112 40 41	7 1 6	46 3 16	5
6	Ad Genu & Armum dextrum	95 31 0	108 57 8	7 3 44	42 19 20	5
	Supra Genu dextrum	95 48 21	107 55 57	7 21 32	41 17 17	5
1	Syrus	97 34 33	106 14 46	9 26 29	39 30 5	1
	Oculus dexter	97 48 51	104 6 52	9 32 58	37 21 40	5
2	In Fronte Bor. ad dextram Auram	99 39 39	101 36 44	11 32 16	44 43 53	5
9	In Latere	100 6 11	113 44 0	13 33 26	46 45 40	5
8	In Fronte Australis	100 9 53	103 34 44	12 20 45	36 38 48	4
14	In Collo seu Arm. Tych. in Humero	100 15 47	109 45 0	13 11 50	42 47 10	5
5	Supra Collum ad Genam	100 18 25	106 36 49	12 52 4	39 39 52	4
11	Inter Femora, vel infima Ventris	101 19 43	118 28 44	16 3 0	51 21 12	2
	In Ventro	102 4 1	117 26 0	16 51 43	50 14 2	4
4	An sinistram Auram	102 9 15	105 7 25	14 56 47	37 59 58	3
8	Ad Humerum	102 15 25	113 19 19	16 20 20	45 7 52	4
10	In Tergo	102 42 51	115 50 15	18 46 0	48 27 2	2
	Ad Tergum inferior	105 14 51	116 4 0	20 52 26	48 28 12	5
	superior	106 11 49	114 18 19	21 42 44	46 35 36	5
13	In Cauda	107 40 35	118 36 43	24 50 0	50 36 10	2

In Constellatione CANIS MINORIS.

Ordo System.	STELLARUM Denominatio.	Ascensio Recta	Afcensio Refta	Diftantia a Polo B	Longitudo	Latitudo	Mag. Heli.
		0 1 2	0 1 2	0 1 2	0 1 2	0 1 2	
1	Supra Lucidam Colli præcedens	106 45 3	80 7 0	16 55	212 38 29	A	6
	In Collo	107 12 21	81 1 45	17 29	913 29 36		3
	Supra Lucidam Colli fequens	107 22 55	80 24 30	17 25	912 51 21		6
2	In Pectore	107 25 53	82 24 0	17 53	1814 49 56		6
	In Pede finiftro Anteriori inferior	108 35 29	87 23 0	19 45	4619 37 9		6
	superior	109 5 53	86 1 50	20 5 43	18 12 37		6
2	Procyon	110 23 33	83 55 20	21 7 17	15 56 11		1
	In Pede dextro pofteriori	113 30 17	87 23 23	24 54	618 52 52		5
	In finiftro Femore	114 23 15	84 2 43	25 9 24	14 59 2		6
3	In Cauda	114 26 29	80 20 36	24 37	2911 46 41		5
	Inter Pedes pofteriores	115 9 43	86 52 8	26 31	4418 5 49		6
	In Pede pofteriori finiftro	116 6 25	86 45 17	27 28	5517 48 51		5
	In Ungula finiftri Pedis pofterioris	116 22 40	89 0 28	28 22	4119 55 46		5

In Constellatione MONOCEROTIS.

53	Inter Pedes anteriores præcedens	89 37 17	95 9 28	11 29	34 14 29	39 46 3	4
54	In Ped. fin. ant. præ. vel in Un. fin. Ped. ant.	90 53 43	97 40 51	12 1	2 14 31	11 0	6
56	In Naribus	91 30 21	85 15 48	1 35	618 45 37		4
55	Inter Pedes anteriores fequens	92 53 11	94 34 45	5 15	39 28 3 7		5
54	In Pede finiftro anteriori fequens	93 7 37	96 49 33	3 35	4630 17 31		4
59	Ad Genam	93 34 33	84 54 23	3 45	1118 21 53		5
57	Ad Oculum in Fronte	93 40 3	82 20 0	3 46	4915 53 28		4
58	Ad Aures	95 35 5	79 50 0	5 38	4913 13 45		4
60	In Cervice	97 15 43	81 37 53	7 26	1414 56 58		5
61	Ad Collum	97 34 59	87 14 56	8 5	3120 32 29		4
	In Pectore præcedens	101 34 15	93 45 41	12 57	426 44 45		5
	fequens	103 27 17	93 42 38	15 2	2026 30 51		6
62	In Eduftione Colli	103 37 37	89 59 37	14 48	2527 47 51		4
	In Latere præcedens	110 8 41	93 25 35	22 21	2815 22 40		5
	In Ventre	111 14 55	98 46 23	22 33	320 28 52		4
	In Latere fequens sub Tergo	115 42 27	92 43 8	28 14	5623 42 55		5
	In Tergo	116 1 47	90 28 45	28 8	621 28 20		5
	In finiftro Femore ad Eduft. Caudæ	122 13 27	92 48 0	5 11	1412 26 42		4
7	In Cauda	126 46 40	96 1 6	10 50	514 26 44		4

In Constellatione NAVIS.

3	In Clypeo Navis infer. præced.	111 15 9	116 4 50	12 28	46 54 47	25 45 A	3
2	In Clypeo fuperior. præcedens	112 45 37	114 0 30	11 20	23 44 57	20	3
1	In fuprema Puppi clarior & feq.	118 15 41	113 19 4	6 40	35 43 16	54	3
4	In Apluftri	118 24 42	101 56 0	3 23	47 12 9	26	3

In Constellatione HYDRÆ.

19	In Capite prima	124 55 23	83 8 7	5 35	2612 25 9 A		4
1	In inferiori Maxilla præcedens	125 20 37	85 28 21	6 34	34 14 35	29	5
2	fequens	126 20 31	85 23 45	7 23	13 14 16	39	4
3	In Capite media	127 12 7	80 21 27	7 38	3511 7 20		4
4	Quæ fub media Capitis	127 34 35	82 54 27	8 8	5311 33 48		3
5	Sub Capite Hydræ infor. fuper. præced.	128 10 29	92 11 22	11 13	0 20 23	8	5
6	In Capite ultima	129 21 29	82 45 38	9 51	1510 58 28		4
8	In Occipite	132 0 45	83 33 22	12 39	2611 2 34		6
9	Post flexur. primam. prima	133 10 15	97 22 23	17 36	4823 57 55		5

In Constellatione HYDRÆ.

Ordo Typus	STELLARUM Denominatio.	Right Asc.	Ascensio Recta			Distantia a Polo B			Longitudo			Latitudo			Mag. Helioc.
			h	m	s	h	m	s	h	m	s	h	m	s	
7	In eductione Colli ad Aurem	0	134	9	53	86	16	18	15	32	14	13	3	15	A
	Post flexuram primam secunda		135	1	23	97	19	22	19	50	30	23	21	33	4
	Sub Corde duarum Australis		135	51	51	100	32	38	21	49	8	26	9	31	6
	Borealis		136	2	5	98	7	38	21	9	8	23	48	45	6
11	Cor	α	137	43	19	97	11	13	22	33	23	22	23	26	1
10	In nexu Colli prima	τ	137	57	47	91	16	53	20	49	45	16	42	31	5
8	media	τ	138	40	36	89	41	18	21	1	15	14	58	23	5
9	tertia	ι	140	37	1	89	35	23	22	53	35	4	16	11	4
12	A Corde prima	κ	141	3	19	102	45	8	27	59	21	26	32	51	4
13	secunda	υ	143	48	27	103	14	39	27	58	57	26	3	43	5
14	tertia	υ	147	9	39	101	25	10	3	36	45	23	10	35	5
15	quarta	λ	148	32	29	100	40	10	4	41	16	21	58	57	4
16	Prima trium ante Craterem	μ	152	26	5	105	5	20	10	19	45	24	28	29	4
	Inform. supra mediam ante Crater. seq.		155	23	45	101	47	52	11	49	0	20	28	54	6
17	Media		155	31	53	105	5	25	13	20	47	23	28	5	5
18	Tertia & proxima		158	14	55	104	23	41	15	39	36	21	47	11	4
21	Sub Cratere Australis		162	20	41	115	25	3	24	41	0	30	11	16	5
20	Borealis		163	44	55	110	55	8	23	48	45	25	34	34	4
23	Prima Caudæ sub Corve		192	43	57	111	13	42	20	6	16	14	29	0	6
22	Penultima & Lucida Caudæ		195	10	47	111	19	0	22	17	49	13	39	14	3
	Tertia Caudæ		197	50	27	111	23	13	24	40	13	12	44	44	6
21	Extrema Caudæ		206	48	43	114	58	16	3	52	0	12	56	46	4

In Constellatione SEXTANTIS.

	Ad Cylindrum Sextantis		139	49	3	81	38	8	19	35	43	6	57	42	A
	In latere Australis superior		140	15	21	83	49	38	20	41	45	8	54	44	5
	inferior		143	55	11	96	31	0	28	32	17	19	43	16	6
	In medio Sextantis		147	37	15	88	44	10	29	22	0	11	6	52	4
	In Limbo præcedens		148	29	53	96	44	8	27	3	7	25	18	19	55
	Ad latus superius Sextantis		149	0	11	83	43	56	31	38	57	0	5	58	23
	In Limbo sequens		149	51	37	96	23	0	27	4	18	50	17	31	0
	In Regula ad Pinnacidium		152	2	11	90	58	56	5	21	0	11	19	48	5
	Inter Regulam & latus Sextantis Bor.		153	14	29	88	50	26	4	45	45	9	15	50	5
	Inter Sextantem & Leonem inferior		154	14	9	83	31	38	3	45	40	3	57	7	6
	superior		154	16	3	81	17	8	2	59	10	1	50	45	6

In Constellatione CRATERIS.

1	In Basi	α	160	48	35	106	27	38	18	59	50	22	40	46	A
3	In medio Ventre superior	β	65	25	29	102	53	48	21	57	15	17	32	36	4
	Parvula ad inferiorem Ventris		166	39	43	106	52	0	24	40	40	20	44	20	6
4	Anfæ superioris præcedens	γ	165	51	15	98	58	8	21	29	36	13	26	55	4
	In medio Ventre inferior	δ	166	59	49	105	44	20	24	29	20	19	34	46	4
5	Anfæ superioris sequens	ε	169	51	13	97	55	0	23	51	0	11	17	51	4
8	Media inter Anfæ	ζ	170	22	19	101	19	18	25	44	0	14	12	23	5
6	Anfæ inferioris præcedens	η	171	55	1	106	24	33	29	19	0	18	13	47	4
	sequens	θ	174	43	1	105	13	33	1	23	0	16	2	15	4
7	Extrema Anfæ inferioris	ι	175	54	13	107	43	28	3	33	30	17	50	15	6

A D

LECTOREM PRÆFATIO:

S I V E,

In STELLARUM FIXARUM Catalogum

PROLEGOMENA.

KEPLERUS vir Sagax (prima suorum Commentariorum parte *de Motibus Stellæ MARTIS*) nobis demonstravit qualiter illi Homines qui primo Cœlestium Corporum Motus prope contuiti sunt, Planetarium Motuum inæqualitatem explorarunt & quomodo hi Motus peragantur, atque super hos Theorias extruxerunt suas. *Ismael BULIALDUS* vir perquam eruditus, in suis *Astronomiæ Philolaica* Prolegomenis, Astronomiæ construxit Historiam; velut etiam *Lucius BARRETTUS* Libro suo in *Observationes TYCHONIS BRAHE* prolegomeno, quem amplo volumine, Titulo *Historia Danica Cœlestis*, in Lucem edidit. Qui de horum Particularium alterutro erudiri Student, consultos habeant Auctores hoc de Argumento pluribus differentes, de quo parum dicam eorum quæ a prædictis Authoribus tradita sunt, nisi aliquid exaugendum superfit vel castigandum, quædam addendo ab illis forte non excogitata, vel nobis obvia facta, postquam illorum Opera edita fuere.

A

Ex

Ex primæva Patrum Antediluvianorum & Postdiluvianorum Historia, eorumque Nativitatibus ac Ætatibus, *Noachi* præsertim Ætate; Menſe item ac Menſis die ex quo Diluvium fuit inchoatum, Arca Montibus incubuit & *Noachus* cum ſua familia ex Arca eſt egreſſus, ipſoque Temporis Articulo *Exodi Hebræorum* ex *Ægypto*, eorumque in *Arabia* Peregrinationum Stationibus ſive Caſtrametationibus, aliſque in *Moyſis* Pentateucho traditis, liquido conſtat, Patriarchas Annorum, certe ſolarium, Rationem a Mundi Exordio feciſſe, menſeſque Lunares in uſu habuiſſe; ſicut *Judæi* ſemper & *Muhammedani* Gentēſque Orientales in hunc uſque diem in eodem pergunt uſu; quod abſque aliqua motuum Solarium & Lunæ ad Solem Redituum mediocri Notitia fieri nequivit.

Et *Bulialdus* & *Barettus*, quid de *Caliſthene* dicit *Porphyrius*, advertunt; ſcilicet, *Babylonios* Obſervationes Cœleſtes Columnis lateritiis inſcriptas, per Annos 1903, ante captam ab *Alexandro MAGNO Babylonem* (Annis nempe 330 ante Æram Chriſtianam) habuiſſe affirmat *Caliſthenes*; adeo ut *Babyloniorum* Obſervationes, ſi certe aliquas feciſſent, noſtri Redemptoris Nativitate Antiquiores Annis 2233 fuiſſe oportet; ideſt, ſecundum hebraicam Temporum Rationem Anno Mundi 1771, & ab Anno 78 Phaleg 14^{to}, vel ab Anno poſt Diluvium 115^{to}, ipſius *Nimrodi* Temporibus, inter ædificandam etiam *Babelis* Turrim, Siderum contemplationi vacare cœperunt *Babylonii*; non autem a Quinto vel Decimo poſt Diluvium Anno, ſecundum Domini *Cary* ſupputationem *Maſoraticam* quæ Vero abſimilis eſt.

Eruditiffimus enim Eques, Noſtras, *Joannes MARSHAMUS* in ſuo Canone Chronico, *Jechabja* Prophetæ verba (cap. XXIII. v. 13.) recitans, *Ecce Terra Chaldeorum! Ille Populus aliquando non erat; Aſſyrius fundavit eam Deſerticulis; erexerunt Arces ejus, ſuſcitaverunt Aedes ejus; poſuit eam in Ruinam* (Jun. & Trem. *Aſſyrius poſuit eam in Ruinam*) hac ſcilicet Paraphraſi iſta verba reddit, “*Aspice Babylonem ſplendidam nunc Chaldaeorum Metropolim! Populus qui urbem illam occupat, non ita pridem incertis ſedibus vagabatur in Solitudinibus; (NABONASSAR) Aſſyrius, homines exquiras, in Tentoris habitantes, eo deduxit, urbem munivit, arces excitavit, Palatia condidit: Tanta cum ſit urbs hæc ab Aſſyrio iſto fundata,*”
“*DEUS*

Editionis Lipſienſis
vel Francofurtanæ
pagina 509.

“DEUS tamen eam posuit in Ruinam.” Et exinde *Babylonem*, etiam si apud quosdam veteres Authores ejus Antiquitate clarissimam, tempore tantum *Jeschahja* cum *Nabonassare* cœvi, vel non multo ante istius Tempora & *Nabonassari* Æram, ædificatam fuisse concludit: atque ad hanc suam Opinionem stabilendam, tum sacrorum Scriptorum primum esse *Jeschahjam* qui urbis *Babylonia* mentionem facit, tum *Ptolomai* Canonem Reges tantum *Affyrios* ac *Medos* commemorare, sine aliqua Regum *Babyloni*orum nominatione, advertit;

Κανον Βασιλειων Ασσυριων και Μηδων.

Canon Regum Affyriorum & Medorum.

Viginti enim ante *Cyrum* Reges recenset iste Canon, quorum 18 primi erant *Affyrii* ac duo Posteriores *Medi*, quibusque *Medis Persarum* Reges confestim successerunt. Quicumque autem hujus Thematis plusculum videre cupiunt, locum *Canonis Chronici* prædictum consulant.

Si vero *Babylonem* fuisse constructam non multo ante *Jeschahja* Tempora concedatur, ac tamen Observationes Cœlestes habuissent per 1903 Annos ante urbem ab *Alexandro* captam, sequetur, istas a *Babyloniis* ipsis non factas fuisse, sed ex Nationum circiter, vel post, *Jeschahja* Tempora ab eis domitarum & captivarum Tabulis publicis repertas ac transscriptas, præsertim *Israëlitarum* & *Judaorum*, qui, ob Festa Solennia certis *Luna* diebus fixa, *Luna* motibus invigilabant & Eclipsium Tabulas custodiebant magis quam aliæ Gentes, quibus nulla fuere Festa *Pleniluniis* fixa, ideoque minor istis *Pleniluniis* invigilandi Ansa.

Observatu dignum est Ethnicos veteres nullam Æram habuisse fixam, qua rerum memorabilium Annos in Tabulas referre potuerunt, usque dum hujus Prophetæ tempora, qui *Uzzia*, *Jothami*, *Achazi* ac *Hezekia*, Regum *Juda*, diebus vaticinatus est.

Primus autem Annus *prima* OLYMPIADIS nostris incipitur Chronographis, a *Novilunio* post Solstitium æstivum vel circa *Julii* Calendas.

Anno	ante Æram	Anno	Period.
<i>Uzzia</i>	<i>Christianam</i>	<i>Mundi</i>	<i>Julian.</i>
35.	776.	3228.	3938.

vel

vel septemdecim Annis ante *Uzzia* obitum; regnavit enim Annos 52, Annoque secundo *Olympiadis* 5^{ta} Fatis concessit.

Itidem *Annus* *URBIS* *CONDITÆ* fuit

<i>Jotham</i>	ante <i>Æram</i>	Anno	Period	Anno Quarto
Regis	Christianam	Mundi	<i>Julian.</i>	<i>Olymp.</i> VI.
VI.	753.	3251.	3961.	

vel potius *Annus Urbis Conditæ* fuit

XI.	748.	3256.	3966.	Anno Quarto } <i>Olymp.</i> VII. }
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vel paulo ante Initium *Olympiadis Octava*, (juxta *Fabii Pictoris* Romanorum Scriptorum Antiquissimi, & Ludorum secularium a veteribus *Romanis* observatorum Rationes) in Festo *Palilitio*, duodecimo Calendas *Maii*, a ROMULO condita coepta fuit ROMA.

Et NABONASSARI *Æra* Annorum *Æquabilium*, diebus nempe 365, absque 6 horarum *Intercalatione*, confectorum Summo Astronomorum Consensu incipit.

Anno	ante <i>Æram</i>	Anno	Period	<i>Urbis Conditæ</i>	Anno primo
<i>Jotham</i>	Christianam	Mundi	<i>Julian.</i>	2.	<i>Olymp.</i> VIII.
XII.	747.	3257.	3967.	vel 7.	

primo autem hujus *Æra* Anno a *Februarii* die 26^{to} incipiente, per Quadriennia singula, ob Omissam *Intercalationem*, uno die fit Regressus, donec Anni Initium per singulos dierum 365. successive vagatum, spatio Annorum 1461 (qui Annos constituunt *Julianos* 1460) ad primum redeat Terminum. Hi vero *Nabonassari* Anni aliter vocantur *Ægyptiaci*, atque *Ptolomæo* familiares, qui eos ad sua sub *Antonino* Imperatore Tempora usque deducit. Ideoque tres istas *Olympiadam*, *Urbis Conditæ* ac *Nabonassari* *Æras* insignes, inter Triginta Annorum spatium, initium facere constat; atque Temporum Rationes, usquedum *Æra Olympiadum* fuit inventa, intricatas valde ac incertas fuisse, multum conqueritur *Herodotus*.

Achazi Regis *Judæ* Horoscopium in sacris Literis memoratur, antequam Astronomiæ quidpiam a *Græcis* vel *Romanis* in
Tabulas

Tabulas fuit relatum; *Decimus sextus* & postremus autem *Achazi* Annus, *Quartus* fuit Regni *Hozeæ* Regis *Israhelis*

ante Æram	Anno	<i>Nabonassari</i>	vel post <i>Nabonassari</i> exitum
Christianam	Mundi		Sextus: regnavit enim Annos
727.	3277.	21.	<i>Quatuordecim</i> .

Itaque si *Horoscopium* istud ab ipso *Achazo* fuerit constructum, (quod verisimile est) vel jam fabricatum, vel equidem hoc Anno magis longævum fuisse oportet. Imò verò

<i>Hozeæ</i> Anno	<i>Hezekiæ</i>	ante Æram	Anno	<i>Nabonassari</i>	Anno Tertio
tributario		Christianam	Mundi		<i>Olymp. XIV.</i>
IX.	VI.	721.	3283.	26 ^o	

SAMARIA *Israhelitarum* Metropolis, post trium Annorum Obsidionem, capta fuit a *Salmanassero* Assyriorum Rege, qui in Ditionem suam *Israhelitas* omnes in *Chalachum*, nempé, *Chaborem*, *Haram* & *Nebar-gozanem* (quò duas Tribus & Dimidiam trans *Jordauem*, cum *Galilaïs* omnibusque *Nephthalitis* citra *Jordauem*, novemdecim abhinc Annis transtulerat *Tiglatpileser*) & in MEDIÆ Civitates quoque deportavit. Atque hinc *Assyrios*, *Medos*, *Chaldaosque* a captivis *Israhelitis*, Astronomiæ Elementa primo didicisse, credibile videtur.

Eclipsium enim prima apud *Babylonem* observata, secundum *Ptolmæum*, contigit Anno *Nabonassari* 27^{mo} id est, post primam *Israhelitarum* a *Tiglatpilesero* Captivitatem Annis viginti, alteramque istam a *Salmanassero* Captivitatem Anno sequente, viz.

Anno	ante Æram	Post finitum <i>Achazi</i> Regnum, ejusque
Mundi	Christianam	<i>Horoscopium</i> extructum, Anno septimo
3284	720.	vel Octavo. Centum circiter Annis pri-

usquam *Astronomia* vel *Matheſeos* quidvis apud *Græcos* in usu fuisse legimus.

Anno sequente, duæ lunares Eclipses apud *Babylonem*, intra sex Menses observatæ sunt; Quod Eventum istas Captivitates subsequens innuere videtur, *Chaldaeos* Astronomiam suam accepisse a Captivis *Israhelitis*, qui Artis *Sciothericæ* Notitiâ imbuti, Orbitalium *solarium* & Periodorum *lunarium*

rium oportet eos non fuisse ignaros; a Quibus forsitan *Chaldaei* suum *SARON*, sive *Eclipsium lunarium*, post 223 Lunationes, Reditum dicere. *Israëlitarium* enim Natio, a *Moyse* Exodo ad *Reboboam* Regis Tempora usque, per Annos; scilicet, 517 permanfit unita. Post etiam decem *Tribuum* Defectionem, tametsi Rex Eorum *Jeroboanus* Altaria vitulorum Idololatrica extruxerit, Festa tamen *Judaicis* vel Hierosolymitanis Festis simillima, ista praesertim *Noviluniorum* & *Pleniluniorum* instituit; ut iisdem Lunæ Tempestatibus (quanquam non semper iisdem Mensibus) ante Defectionem usitatis, Cultum suum Novum continuò celebrarent; quod per Annos 254 propemodum ad Captivitatem usque *Salmanasseri* peractum fuit; quo Tempore omnes *Israëlitæ* *Eclipsium* Reditus, per Istorum Observationes in Pleniluniis frequentes, & ob maximum cum suis fratribus *Judaicis* consortium, facillime discere potuerunt; quam quidem Scientiam Novis suis Dominis ac Domatoribus, ad majorem ab eis honorem lucrificandum, impertire curarunt.

Plinius Rerum ab unoquoque excusarum, sive inventarum, Rationem reddens, *Cadmum Phœnicum* in *Graciam* Lib. 7. Cap. 56. primum *Literas* apportasse, nobis narrat; & quod *Epigenes*, Author perquam modestus, atque inter *Chaldaeos* multum versatus, eos (nempe *Chaldaeos*) Annorum 730 Observationes Cœlestes Lateribus inscriptas habuisse referat; *Berosus* autem & *Critodemus* (qui parcissime scribunt) sese Annorum tantum 480 Observationes colligasse asserunt.

Quando vixerat *Epigenes* non nobis constat: cum autem *Tullius* nunquam, & sæpissime *Seneca* ejusdem meminerit, post *Ciceronis*, & ante *Seneca* Tempora floruisse videtur; vel post SALVATORIS nostri Nativitatem Anno quasi 10^{mo}, sive Tempus AUGUSTI Imperatoris circiter extremum: atque hac Hypothesi *Epigenis* Anni 730 retrò numerati, primæ istius *Eclipseos* apud *Babylonem* (Anno *Nabonassari* 27^{mo}) Tempus per-tingunt.

Eruditissimus etiam *nostras*, Præful STILLINGFLEET, *Berosum* Sacerdotem Chaldæum, *Antiochi* Rex *Syriae* ac *Affyriae* Regis tempore floruisse monstrat; cujus Regnum, secundum nostros Chronologos, finitum est,

Anno	ante Æram	Anno	a Quibus <i>Berosi</i> & <i>Critodemi</i>
<i>Nabonassari</i>	Christianam	Mundi	Annos prædictos 480, subdu-
501.	246.	3758.	cendo, ad <i>Nabonassari</i> Annum
			vigesimum

vigesimum primum deventum est; primæque istius Eclipsæ apud *Babylonem* Observatæ, & secundæ *Isræliitarum* a *Salmanassero* Captivitatis Tempus appropinquamus.

Hinc perquam videtur probabile, Eclipsium *Babyloniæ* Observationes a *Ptolemao* recensitas, omnium fuisse Antiquissimas quæ *Antiochi* diebus extabant (imò & *Alexandri Magni* diebus, qui ante *Antiochum* ^{Θ'.} ab uxore *Laodice* Veneno interfectum, 76 tantum Annis occubuit) quo regnante *Berosus* Sacerdos Chaldæus suam scripsit Historiam; in qua, si aliquæ Observationes Cœlestes illis vetustiores superessent, verisimile est istas memorasset: *Calisthenes* igitur, vel de antiquis apud *Babylonem* Observationibus cœlestibus perperam fuit edoctus, vel si *Chaldæorum* Linguam numerosque intellexisset, in eorum valore ac momento allucinatus est.

Veteres *Græci* scriptores *Thaletem* *Milesum* omnium *Græcorum* primum Solis aliquam Eclipsin prænunciare idoneum fuisse, ac propterea multa fuisse Admiratione habitum, speciatim, unam Solis Eclipsin apud *Sardem*, regnante *Halyatte* *Lydiæ Rege*, prædixisse animadvertunt; atque exinde, vel ad supputandas Eclipses, tunc Temporis Philosophis Tabulas fuisse, vel, quod probabilius est, *Thaletem* a *Chaldæorum* *SARONE* supradicto istam supputationem investigasse, colligitur.

DIODEGENES Lærtius ulterius *Thaletem* narrat fuisse natum

Anno Mundi	ante Æram Christianam	<i>Nabonassari</i>	Anno primo <i>Olymp.</i>	Anno <i>Josia</i> Regis <i>Judæ</i>
3365.	639.	108.	XXXV.	2 ^{da} .

Si autem Annos vixerit 92 (uti ex *Soficrate* refert *Lærtius*) tum Fatis concessit *THALES*

Anno Mundi	ante Æram Christianam	<i>Nabonassari</i> circiter	Anno primo <i>Olymp.</i> LVIII	regnante <i>Belshaz-</i> <i>zare</i> <i>Babyloniæ</i>
3457.	547.	200.	vergente.	<i>Rege</i>

De Solstitiis etiam & Æquinoctiis, ac de Solis a Solstitio ad Solstitium Reditibus, *Thaletem* scripsisse, in *Ægyptum* commigrasse, ac inter Sacerdotes *Ægyptios* intime fuisse versatum, a quibus *Geometriam* didicit; omniumque *Græcorum* primum *Triangulum Rectangulum Semicirculo inscribendi Methodum* investigasse,

vestigasse, nobis tradit *Lærtius*. *Thaletem* utcumque totam istam Notitiam a Sacerdotibus *Ægyptiis* non didicisse, verum *Geometras* aliquos, pauló ante ejus Tempora, fuisse inter *Græcos* theoreticos & cogitabundos, credere malim: *Proclus* enim in suo *Geometrarum* Elementa colligantium, & ante *Euclidem* insignium, Catalogo, *AMERISTUM Stesichori* Poetæ cum *Thalete* coævi fratrem imprimis collocat. Ante utrumque veruntamen, Annos circiter ducentos, *AMOS* Propheta, non quidem ex Astronomica scientia (quippe a sequendo Grege ad prophetandum vocatus) sed ex Revelatione divina Solares Eclipses prænunciassse videtur Cap. VIII. com. 9. 10. *Et erit die illo! dictum Jehovah, efficiam ut Sol occidat in meridie & obtenebrabo Terram die lucido & commutabo dies Festos vestros in Luctum!*

Centum Annis post primas istas *Babyloniorum* Observationes, alia fuit *Luna* Eclipsis apud *Babylonem* observata

Anno Mundi 3383.	ante Æram Christianam 621.	Anno <i>Nabopolassari</i> 5.	<i>Nabouassari</i> 127.	Anno primo <i>Olymp.</i> XL incunte
vergente	vergente			

circa Tempus quo *Josias* Judæ Rex Festa Noviluniis, & Pleniluniis, a Legislatore *Moyse* fixa, religiose observare decrevit; antequam aliquas Eclipses, vel in *Græcia* vel in *Ægypto*, observatas fuisse legimus.

Interim *ANAXIMANDER Milesius* natus, Annum circiter

Mundi 3393.	ante Æram Christianam 611.	<i>Nabonassari</i> 136.	<i>Olymp.</i> XLII. Anno primo
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Signiferi obliquitatem primus observans, *Gnomonem* sive *Horoscopium* *Æquinoctios* & *Solstitios* monstrans, apud *Spartam*, sive *Lacedæmonem*, extruxit; sicut in ejusdem vita nobis narravit *Diogenes Lærtius*, illumque, addit, tunc Temporis Senem fuisse Annorum 64, viz.

Anno Mundi 3457.	ante Æram Christianam 547.	<i>Nabonassari</i> 200.	Anno primo <i>Olymp.</i> LVIII. vel secundo ineunte
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& non multo post mortuum fuisse refert *Lærtius*.

Ideoque

Ideoque Gnomonem ejus prædictum, *Achazi* Horoscopio Annis circiter 181 posteriorem, tantoque citius *Hebræos* istam Matheseôs partem ante *Græcos* excoluisse constat.

Eodem Anno quo Solis Eclipsis totalis, a *Thalete* prædicta, apud *Sardem* conspecta fuit, natus erat *Sami* PYTHAGORAS.

Anno ante Æram	<i>Nabonassari</i>	Anno Tertio
Mundi Christianam	146.	<i>Olymp.</i> XLIV.
3403.	601.	vel quarto ineunte

Annumque agens Decimum octavum, suas ingressus est Peregrinationes, primoque *Pherecydem*, tum *Anaximandrum* ac denique *Thaletem* Præceptores adivit suos; postea *Sydonem*, *Byblum*, *Tyrum* aliasque, *Syria* Civitates lustravit, in quibus etiam in Re Philosophicâ initiatus est: illinc in *Ægyptum* navigans, Terram tetigit *Phœnicam* ut *Carmeli* ascenderet Montem; *Polycratis* Tyranni *Samienfis* Literas de se Testimoniales *Anafidi* Ægyptorum Regi obtulit, ab Eoque Epistolâm Primariis Sacerdotibus *Ægyptiis* commendatoriam acquisivit, qui *Istis* apud *Memphim* PYTHAGORAM amandarunt, & hi Sacerdotibus apud *Diospolin* illum transmiserunt; ubi circumcisus fuit, Eorumque Linguas, Ritus Sacros ac *Μεταμύχων*, Geometriam quoque & Astronomiam, tresque Literarum Species didicit, & Sacerdotum *Ægyptiorum* Veterum libros perlegendo, scrutando, Seculorum innumerabilium Observationes Ei fuere cognitæ. In *Arabiam* deinde, Eruditionis ergo, migravit, ubi ac in *Ægypto* permanfit, donec *Babylonem* profectus est. Tunc verò a quibusdã *Chaldæis* fuit edoctus, & in *Magos persas Judæosque* incidens, de illorum Religione vitæque Ratione erudiebatur, ac *Judaicam* didicit Notitiam Astronomicam: exinde post XXII Peregrinationis suæ Annos, *Samum* reversus est; *Polycrate* autem adhuc regnante, in *Italiam*, Libertatis ergo, secessit, Annum agens quadragesimum; *Delon Delphosque* in commigratione suâ lustravit, atque apud *Crotonem*, Italiæ Civitatem perantiquam, XX Annos commoratus est; deinde *Metapontum* adivit, ubi, sicut etiam *Crotonis* & *Heracleæ*, Discipulorum suorum instituit Collegium; demum verò profani Vulgi furore interfectus est.

Pythagoræ idcirco Peregrinationum Tempus inter *Ætatis* suæ Annum 18^m & 40^m illabitur; per *Annos*, scilicet, viginti duos *Advena* fuit, viz.

Inter Annum	ante <i>Æram</i>	<i>Nabonassari</i>	inter Annum secundum
Mundi	Christianam		<i>Olymp.</i> XLIX.
3421.	583.	164.	& Annum quartum
& 3443.	& 561.	& 186.	<i>Olymp.</i> LIV.

Jam vero PRIMA *Judaorum* Captivitas, Anno Regni *Jeboiakimi* undecimo, *Nabonassari* 148^m, & ALTERA Anno Regni *Zedekia* undecimo, *Nabonassari* 159^m, *Ista* sedecim, *Hæc* verò quinque Annis, ante incepit tam *Pythagoræ* Peregrinationem, pluribusque Annis ante ejus in *Babyloniam* Appulsum, evenerunt; ideoque a *Judeis* in *Chaldaorum* Regione dudum Incolis, Astronomiam æque ac eorum Ritus religiosos & Ceremonias facili negotio ediscere potuit *Pythagoras*.

Apud alios tamen Auctores veteres, *Pythagoram*, tribus ferme Annis postquam *Thales* diem obiit, in *Ægyptum* navigasse, constat, viz.

Mundi	ante <i>Æram</i>	<i>Nabonassari</i>	Anno quarto
Anno	Christianam		<i>Olymp.</i> LVIII.
3460.	544.	203.	

In *Ægypto* & *Arabia* viginti duos permansit Annos, donec a *Cambyse* Persarum Rege Captivus, in *Babyloniam*, unâ cum Prædâ *Ægyptiacâ*, deportatus fuerit

Anno	ante <i>Æram</i>	<i>Nabonassari</i>	Anno secundo
Mundi	Christianam		<i>Olymp.</i> LXIV.
3482.	522.	225.	

Illumque hac in Regione quinque tantum Annis Operam Studiis navasse concedendo, ejus Peregrinationum Tempus illabitur

Inter Annum	ante <i>Æram</i>	<i>Nabonassari</i>	inter Annum quartum
Mundi	Christianam		<i>Olymp.</i> LVIII.
3460.	544.	203.	& Annum tertium
& 3487.	& 517.	& 230.	<i>Olymp.</i> LXV.

per Annos nempe septem & viginti *Advena* fuit: Adeo ut Prima ista *Judaorum* Captivitas Annis 77, & Altera Annis 66, ante *Pythagoræ*

Pythagoræ in *Babyloniam* Appulsum evenerunt; ideoque tum a *Judeis* nondum in *Palæstinam* reducibus, tum a *Chaldeis* *Judæorum Discipulis*, Astronomiam discere potuit *PYTHAGORAS*.

Idem Auctor *Lærtius* ex *Parmenide* refert, *Pythagoram* Philosophorum fuisse primum, qui Stellam vespertinam & matutinam eandem esse affirmavit; quum autem in antiquo Systemate *Chaldaico* : *Venus* moveat circa *Solem*, *Pythagoram* Thesin istam a *Chaldeis* fuisse mutuatum, verisimile est. Terram quoque esse rotundam, & alterutrinque ab *Antipodibus* habitabilem asseruit; Omnium verò ejus Assertionum observatu dignior est, *Solis a Terra distantiam, triplò tantum, aut ad summum sextuplò, Lunæ distantiam majorem esse*; unde *Græcos* certarum *Solis Lunæque* a Terra distantiarum Notitiam accuratam nondum acquisivisse patet; illisque adhuc nullas fuisse Tabulas ad *Lunæ* Motus supputandos, vel Adumbrationis Terrenæ Diametros in Eclipsibus *Lunaribus*, vel Eclipsium *Solarium* Parallaxibus determinandas, non videtur improbabile; absque quibus tamen Tabulis, Tempora & Quantitates, in Luminarium Eclipsibus adumbratas, investigare nequiverunt: quum verò *Thales Chaldaeorum* *SARON*, sive Eclipsium Revolutionem, peregrinando didicerat, ejus ope totalem istam apud *Sardem* Eclipsin, regnante *Halyatte* *Lydiæ* Rege, prænunciare valuit: tantòque magis hoc est advertendum, quod jam Tempus appropinquamus, quum Viri quidam insignes a Deo fuscitati, Operum in Cælestibus divinorum Notitiam Mundo exquisitiùs darent & luculentior.

Græci enim ab *Ægyptiis* Geometriam, & Astronomiæ Artisque Sciotherica principia a *Babyloniis* nacli, rem Philosophicam quotannis ampliarent. *Atheniensium* Menses, sicut *Judæorum*, erant Lunares, sed Eis idem fuit Annus cæteris *Græcis* communis; nam Annum Solarem ex diebus 365 & quadrante, sive horis 6, esse compositum, *Lunæque* ad *Solem* Reditus, in eundem *Solaris* Orbitæ locum, talibus Annis *novemdecim* peractos esse erudiebantur: Ubi verò istius Computationis Initium aptarent, adhuc in dubio fuit. Hoc tamen Initium (dum *Athenarum Archon* erat *Absendes*) a *METONE* ac *Euclémone* decifum fuit & aptatum: hi enim Solstitium *πεποις*, tempore Matutino, diei vigesimi primi *ϕαμενοθ* Mensis

Menſis Ægyptiacæ, (*Junii Juliani* die 27^{mo}) Novilunii quoque tempore, contigiffe, Obſervationibus invenerunt Cæleſtibus, ſcilicet

Anno quarto vergente	<i>Nabonaſſari</i>	ante Æram	Anno
<i>Olymp.</i> LXXXVI.		Chriſtianam	Mundi
	315.	432.	3572.

quibus autem *Mediis* hoc fuit inveſtigatum, nobis non tradidit *Ptolemaus*; tamenſi *Umbras* quorundam dierum, anteceden- tium ſeinvicem & ſubſequentium, extenſas conferendo, fieri potuit Inventum: hunc ergo Diem fui *novemdecim* Anno- rum *Cycli* Initium conſtituit.

Poſt *Metonem* centum Annis, ſecundum noſtros Chronolo- gos, floruit EUCLIDES, qui ſub *Ptolemai Lagi* Ægyptorum Regis Patrocinio, Geometriæ Elementa, ab aliis *Geometris* jamdudum reperta, in Methodum huc uſque non emenda- tam, colligavit,

Annum cir-	ante Æram	<i>Nabonaſſari</i>	Annum quartum
citer Mundi	Chriſtianam	circa	<i>Olymp.</i> CXVIII.
3700.	304.	443.	

quin etiam apprimè ſcripſit quæ nobis de *Sectionibus Conicis* tradit APOLLONIUS, quatuor primis ſuis Libris, quibus alios quatuor (ex Arabica Lingua nuper verſos editosque) ſubtexuit ipſe *Apollonius*; Qui, *Egyptorum* Regis eruditiffimi PTOLE- MÆI PHILADELPHI tempore, celeberrimus fuit, unà cum *Tymo- charide*, *Ariſtarcho*, & permultis aliis omnium Scientiarum, Artium & Facultatum Profeſſoribus inſignibus, præſertim *Geometris*, qui per amplam doctiffimi Regis Beneficentiam, *Philophis* omnibus ſequuturis maxima largiti ſunt Bene- ficia: adeo ut *Geometria*, ad *Aſtronomiam* promoven- dam perquam requiſita, ſuæ Perfectionis Cacumen fermè pertingit, dùm ipſa *Aſtronomia* Incunabulis quaſi ſuis adhuc jacebat.

Metonis in obſervando Solſtitio proſper Eventus, alios fo- lertes Viros *Græcos*, idem facere periculum excitavit; non tan- tùm ad emendanda *Calendaria*, ſed etiam ad *Planetarum* Motus notandos, quos verifiſimile eſt *Chaldaei* prius facere inſtituerunt: *Ptolemaus* enim diverſarum Eclipſium *Lunari-*

um, præcipuè duarum apud *Babylonem* observatarum, Nobis tradit Historiam; scilicet,

Inter Septimum Regis}		[<i>Nabonassari</i> Annum 453
<i>Cambyſis</i> Annum; }		[Sive primæ periodi } 36
Sive <i>Nabonassari</i> . 225 } atque		[<i>Calippiensis</i> Annum }
ante Æram Christ: 522		[Ante Æram Christ: 294
Mundi Annum 3482]		[Mundique Annum 3710

per Annos nempé 228, quando *Lunam* cum Spica *Virginis* notavit TIMOCHARIS, *Pleiadumque* observavit *splendidissimam* ab eodem Tempore usque ad

<i>Calippi</i> Annum	<i>Nabonassari</i> ante Æram	Christianam	Annum	per Annos
47.	464.	283.	3721.	nempé un-
				decim

ab hoc autem Anno ad usque *Nabonassari* 507, per Annos nempé *Quadraginta tres*, δ, ς, ζ, cum aliarum Constellationum Stellis quibusdam notantur. Unde veteribus Philosophis Chartulas, sive Constellationum Tabulas, tunc Temporis exaratas fuisse, manifestò liquet; quanquam forte suas Tabulas non tam consummatas formârunt & concinnas, quam Istæ centum ferme Annis post *Timocharidem* delineatæ ab *Hipparcho*, cum quo *Aristillus* videtur fuisse cœtaneus, qui *Pleiadum* *splendidissimæ*, *Capellæ* item, & *Castoris*, *Pollucis*, triumque in *Urse Majoris* Caudâ Stellarum, Declinationes notavit: ut videre est *Ptolemai* Libro 7^{mo}, Cap. 3^{to}.

Timocharidis Tempore floruit etiam ARISTARCHUS *Samius*, qui *Lunam* non esse διχοτομή, sive in duas partes æquales sectam, aut dimidiò illuminatam, usque ad sex horas primam Quadraturam proximo-præcedentes, vel post ultimam Quadraturam, animadvertens; exinde *Solem* tunc non fuisse a nobis ter aut Sexies, sed equidem duodevicies aut vices *Lunâ* remotiorem conclusit: quam Conclusionem in suo Tractatu περὶ Μεγέθους καὶ Απόστηματος ἡλίου καὶ ζεαήνηος de *Solis Lunæque* Magnitudinibus atque Distantiis, probare conatus est; in quo istas Distantias accuratè illum decrevisse, non est arbitrandum, sed tantum propemodum. Si enim *Lunam* nudo Oculo conspectam expendamus, eam esse dimidiò illuminatam,

primi 3 ad
** Appulsi
a Græcis obser-
vati.

Editus à Doctore
Wallis, Græcè & Latine
Operum ejus
Volumine 3^{to}

tam, usque dum veræ Quadraturæ venerit Hora, vix aut ne vix concludemus: si Lunam veró, per Telescopium 12, vel 15 Pedum benè machinatum, conspiciamus, Illa nobis non comparèbit dimidió illuminata, donec intra unius Horæ tempus, vel pauló minus, ante primam Quadraturam & post ultimam deventum est: Hinc autem *Solis* a *Terra* distantiam veram istà ab *Aristarcho* determinatà Distantià, minorem fieri non posse, nobis concludendum est; quæ tamen Distantiæ Determinatio ab omnium suorum Coævorum & Antecessorum Opinionibus permultùm fuit diversa.

Hac de re plura videantur in *Ricc. Almag.* Lib. III. Cap. 2, paginà 108, ubi Terræ Motum & super *Axin* suum, & circumcirca *Solem*, Stellis fixis in Distantiam a Terra indefinitam amotis, *Aristarchum* affirmasse narrat; quam ob Causam a *Cleanthe* in jus vocatus fuit, quod *Sacra VESTÆ* movisset. Atque *Ptolemæus* Lib. III. Cap. 2. τὸ Μεγαλ. Συναξ. *Aristarchum* Solstitium æstivum observasse affirmat, Anno scilicet

primæ Periodi	<i>Nab-</i>	ante Æram	Annoque	<i>Ptolemæi</i>
<i>Calippiensis</i>	<i>nassari</i>	Christianam	Mundi	delphi in <i>Egypto</i>
50.	467.	280.	3724	Regis Anno 4 ^{to} .

Aristarchum Lunæ a Terra Distantiam decidisse, ab ullis ejusdem Reliquiis non liquet; secus enim *Solis*, *Terra*, *Lunaque* Magnitudines multó meliús determinasset, sicut posterorum seculorum Philosophi fecere, qui, totaliū Eclipsium Lunarium Duratione, *Luna* a *Terra* Distantiam fore 60 circiter *Terra* Semidiametros investigarunt, & exinde *Solis* a *Terra* Distantiam circiter 1200 *Terra* Semidiametros fuisse conjectarunt, quā in Distantiā propemodum, *Solem* a *Terra* collocant. *Ptolemæus*, *Albategnius*, *Alphonsus*, *Copernicus* & *Tycho*: Quanquam olim *Possidonius* (forsitan ob διχοτομίας Lunarium Tempora ab illo cautiús observata) *Wendelinus* etiam seriús, nostrasque *Streetus*, solem a Terra supra 13000 *Terra* Semidiametros amonent; quæ quidem Majorque distantia, Observationibus Telescopiorum ope peractis, rata est & constabilita: Nec Angulum a *Luna* Diametro subtensum *Aristarchi* diebus fuisse cognitum, liquidò constat.

ERATOSTHENES *Cyreniensis* ARISTARCHO *Samio* succedens, *Ptolemæi* *Euergetis* Ægyptorum Regis tempore vergente, celeberrimæ Bibliothecæ Alexandrinæ, a *Ptolemæo* *Philadelpho* extructæ

extructæ, Præpositus floruit secundus, Annum circiter ante Æram Christianam 224: atque *Bulialdus*, nescio quâ Auctoritate, *Armillam* in quodam Porticu ad Stellas Planetasque ibidem notandas erigendam, curasse narrat *Eratosthenem*. Alii etiam Auctores illum *Ecliptica* obliquitatem $23^{\circ} 51' 20''$ primum decidisse tradunt: Atque hæc Quantitas ab *Hipparcho*, *Ptolemaeo*, omnibusque Astronomis subsequenter non castigata servabatur; donec *Almamon* Babylonæ *Caliphus*, Annum circiter *Christi nostri Salvatoris* 825, & *Hegira* 203, illam 16 Minutis minorem, Observationibus reduxit Cœlestibus.

Quidam *Ecliptica* obliquitatem primò investigandam attribuant *Pythagoræ* vel *Onepidi* Chionensi, eosque cum *Aristarcho* Samio illam 24 Gradus determinasse dicunt: quo verò Instrumento, quâ fuit Instrumentum Magnitudine, & quomodo Eorum Observationes cœlestes, (a quibus deducta est ista Obliquitas) erant peractæ, nullibi, ut scio, Nobis est inperitum.

Eclipses quædam Lunares inter *Timocharidis* & *Hipparchi* Tempora observabantur, quarum una Circumstantiis vestita memorabilibus a *Livio* notatur, scilicet, quod ante Prælium, istud ingens inter *Paulum Æmilium* Consulem Romanum & *Perseum* Macedoniæ Regem ultimum, *Sulpitius Gallus*, Militum Tribunus, *Æmilium* accedens, magnam fore *Lunæ* Eclipsin nocte proximo-sequente ei significavit; Consulique istius jussu, toti Exercitui rem divulgavit, ne quis illud pro Portento acciperet quod naturali ordine eventurum & sciri & prædici potuit: adeo ut Milites *Romani* istud *Φαινόμενον*, secundum hujus Tribuni prædictionem, nocte sequente videntes, nequaquam erant perterriti: *Macedones* verò, illam Eclipsin conspicientes, ut triste Prodigium, Regni Occasum Gentisque perniciem portendens, magnâ Extasi fuere percussi; & *Æmilius* crastino die, cum *Macedonibus*, ab istâ Formidine nondum liberatis, dimicans, maximam reportavit Victoriæ, circa Nonas septembres

ante Æram Christianam	Anno Mundi	Urbis Condita	<i>Nabonassar</i> ri Annum	Anno XI ^{mo} tertiæ periodi	Anno primo
		586.	circiter	<i>Calippiensis</i>	<i>Olymp.</i>
168.	3836.	vel 580.	580.		CLIII.

duobus vel tribus Annis antequam belligerare aggressus est,
Judas

Judas Maccabeus, & eo Anno quo *Hipparchus* primum suum *Æquinoctium Autumnale* notavit.

Ptolemaus in multis suis Eclectis, *Hipparchi* tum vernalium tum autumnalium *Æquinoctiorum* & quarundam *Eclipsium Lunarium* Observationes, atque etiam (ut a *Plinio* conjectare licet) *Stellarum Fixarum* ejus Catalogum, nobis traduxit; *Hipparchum* enim *Stellas novas* aspicientem, *Instrumenta* ad Earum *Loca* notanda fabricasse asserit, Earumque formasse Catalogum, quem *Posteris* literariis Testamento suo legavit; quo videre possint num Earum aliquae extinguerentur vel denuo perlucere vel novae orirentur. *Fixarum Motum* quotannis Antrorsum esse, primus exploravit *Hipparchus*; atque *Ptolemaus* Motum hunc, centum Annorum spatio, per unum ferme Gradum esse expositum affirmat: *Ptolemaus* enim a Tempore quo *Hipparchus* suas finivit Observationes ad *Antonini Imperium* (cujus Imperio ineunte suas fecit ipse *Ptolemaus*) Annos computat 265, quibus Antrorsum moverunt *Fixae* per $02^{\circ} 40' 00''$ vel propemodum per unum Gradum, ut asseverat, centum Annorum spatio. *Veterum* autem Observationes cum *Istis* nostri Temporis conferendo, verus *Fixarum* Motus reperitur fore $03^{\circ} 41' 00''$ spatio Annorum 265. Jam vero quum *Plinius* nos faciat certiores, *Hipparchum* ad *Fixas* notandas *Instrumenta* cudisse, Earumque Catalogum formasse *Posteritati* legatum; & quum Earum Motum esse $02^{\circ} 40' 00''$ tam strenue certat *Ptolemaus*; hinc ideo planè nobis indicatum est, *Ptolemai* Catalogum, in ejus *Magna Syntaxi* traditum, ipsissimum esse *Hipparchi* Catalogum ad usque Initium Regni *Antonini* dilatum, addendo, scilicet, *Hipparchi* Longitudinibus $02^{\circ} 40' 00''$: Exinde autem quoque sequitur, *Ptolemaum* omnia *Fixarum* loca (ac proinde *Lunae* siderumque cæterorum *Loca*) uno integro Gradu minora computasse quam facta fuisse oportuit: Reductio enim realis quam facere debuit *Ptolemaus*, sive verus *Fixarum*, spatio Annorum 265 Motus fuit $03^{\circ} 41' 00''$ ut supra dictum est.

QUAMVIS autem a *Supradictis*, veteres *Chaldaeos* & *SARON* suum, sive *Lunarium* *Eclipsium* periodum vel ab *Israelitis* vel a *Judaïs* mutuatos esse, non incredibile videatur; Eosque, qui *Eclipsium* Periodos invenerant, de veris *Fixarum* & *Constellationum* *Locis*, æque ac de *Astronomia* & *Constructionibus*

nibus Mechanicis Notitiam, saltem modicam lucratos esse, verisimile sit; aliquas tamen de *Fixarum* Locis accuratas Observationes, ante *Timocharidis* & *Aristilli*, vel equidem *Hipparchi* Tempora factas fuisse, ullis Veterum Reliquiis & Monumentis Nobis non liquet. *Ptolemæus* enim (cui acceptum referimus quicquid a Veteribus hoc de Argumento Nobis est traductum) se perpaucas *Fixarum* Observationes ante sua Tempora reperivisse, illasque tantum a *Timocharide*, *Aristillo*, & *Hipparcho* factas, a duobus quidem prioribus neque exquisitas nec indubias, ab *Hipparcho* verò tum studiose nobis consignatas, tum indubitatas fuisse, disertè asserit.

Mosch. Tervæ Lib.
VII. Cap. I.

Quosdam *Lunæ* ad Stellas Fixas Appulsus *Timocharis* atque *Aristillus* notarunt, Annum circiter ante Æram Christianam 295 Annunquæ, Mundi 3709 & postea Anno 283 Mundique Anno 3721. *Eudoxus* etiam, qui 73 Annis ante *Timocharidem* floruit, pauca quædam de *Fixarum* Declinatione observata nobis reliquit: nec incertum est *Metonem* ac *Euclæmonem* (qui Solstitia & Æquinoctia notaverant, quique Anni Diuturnitatem, *Solis* Cursum *Lunæque* Phases & Periodos nonnihil resciverant) de *Fixarum* Locis Notitiam venatos esse aliquantulum, sine qua nunquam *Lunæ* Loca sive Positiones, *Eclipsium* Temporibus exceptis, investigare potuerunt: ideoque, ut *Lunæ* ac *Planetarum* Loca vera inveniantur, ad *Fixarum* Catalogos conscribendos primò sese Accommodasse, maximè videtur probabile.

PTOLEMÆUS *Fixarum* Declinationes ab *Aristillo*, *Timocharide*, *Hipparcho*, & *Scipio* Notatis Nobis tradit Lib. III. Cap. 3^{to}, quas hic inferendas putavi, viz.

	<i>Timocharis.</i>	<i>Hipparchus.</i>	<i>Aristillus.</i>	<i>Ptolemæus.</i>	<i>Error. Timoch. & Aristill.</i>	<i>Error. Hipparch.</i>	<i>Error. Ptolemæus.</i>
<i>Lucide Aquile</i> _____	3 5 48	5 48	0	5 50	+ 2	+ 2	6
<i>Media Pleiadem Aldebaran</i> _____	3 14 30	15 30		16 15	+ 4	—	26
<i>Lucide Hyadum</i> _____	3 8 45	9 45		11 0	+ 12	—	12
<i>Capelle</i> _____	3 10 24	10 24	40	0 41 10	— 24	—	11
<i>Præcedentis Orionis Humeri</i> _____	3 1 12	1 43		2 30	+ 4	+ 2	13
<i>Sequentis Orionis Humeri</i> _____	3 3 50	4 20		5 15	— 1	—	16
<i>Lucide in Ore Canis</i> _____	A 16 20	16 0		15 45	+ 35	+ 43	41
<i>Præced. in cap. Gemini sequent.</i> _____							
<i>Castoris</i> _____	3 33 10	33 10	33	0 33 24	— 0	+ 2	1
<i>Pollucis</i> _____	3 30 0	30 0	30	0 30 10	— 9	—	3
<i>Coridi Leonis</i> _____	3 21 20	20 40		19 50	— 18	—	6
<i>Spica</i> _____	3 1 24	0 36	0	0 30 A	— 5	+ 12	33
<i>Ultima fove illius in Extremitate, Caudæ</i> } <i>Urse Majoris</i> _____	3 60 45	61 30	59 40				
<i>Media</i> _____	3 66 30	67 15	65 0				
<i>Tertia (fere in Caudæ Radice)</i> _____	3 67 36	68 30	66 15				
<i>Arcturi</i> _____	3 31 30	31 0	29 30		— 21	— 46	63
<i>Lucide in Extremitate Australioris Cbelarum Scorpion</i> _____	A 5 15	5 36		7 10			
<i>Illius in Extremitate Borealis Cbelarum</i> _____	A 1 12	0 24		1 0			
<i>Lucide in Pectore Scorpion Antares</i> _____	A 18 20	19 0		20 15	+ 6	+ 11	6

E

Ex his, *Timocharidis*, *Hipparchi* ac *Ptolemai* de *Spicae* & *Virginis* Declinationibus, Observationes expendere, illasque cum istis in Tabulas nostras relatis conferre, operæ prætium erit: hæc enim Stella & eorum diebus cis punctum æ *Libra* Æquinoctiale $8^{\circ} 00' 00''$ plus minus observabatur; nostris verò diebus ultra idem punctum circiter $19^{\circ} 30' 00''$ notatur; adeo ut ab eorum Tempore ad hodiernum Diem, suam Declinationem ullâ aliâ ejusdem Magnitudinis Stellâ fixâ ocyus transtulerit Virgo: supponendo enim Annum Punctorum *Terra* Æquinoctialium Receptum exactè esse $0^{\circ} 0' 50''$, Locumque *Spicae* æ *Librae* consummatè esse $19^{\circ} 31' 22''$, sicut in nostro Catalogo, Anno *Æra Christiana* 1689, se habet; atque *Timocharidis* Observationem, ante *Æram Christianam* Annis 295, fuisse peractam; sequetur ejus Motum per Annos 1984, inter *Timocharidis* Tempora nostraque, esse $27^{\circ} 33' 20''$. *Timocharidis* ergo Tempore verus & *Virginis* Locus fuit $21^{\circ} 58' 02''$, & ejusdem Declinatio Septentrionalis *Vera* tunc fuit $01^{\circ} 19' 30''$ quam notavit $01^{\circ} 24' 00''$, idest, supra nostram Supputationem $00^{\circ} 04' 30''$ tantum.

Ptolemaus, Catalogum suum ad primos *Antonini Pii* Imperatoris Annos accommodans, *Hipparchi* Observationes suis Anterioribus Annis, nempè, 265, fuisse narrat. Jam verò *Antonini* inchoatum est Imperium, Anno *Æra Christiana* 137^{mo}; ideoque *Hipparchus* Cœlestibus dudum vacavit Observationibus Anno ante *Æram Christianam* 128^{no}, idest, Annis 1817 ante nostram Computationem Anno *Æra Chr.* 1689 factam; quo Annorum 1817 Spatio *** promoverunt $25^{\circ}, 14', 12''$; ita ut *Hipparchi* Tempore, secundum nostras Rationes, Locus *Spicae* & *Virginis* fuit $24^{\circ}, 17', 12''$, ejusque Declinatio Septentrionalis fuit $00^{\circ}, 24', 30''$, quam *Hipparchus* prodit a se observatam $00^{\circ} 36' 00''$. Quum autem *Ptolemai* Observationes, *Antonini* Regno incunte, sive Anno *Æra Christiana* 137^{mo} vergente, factæ sint, a nostrâ recesserunt Computatione Annos, scilicet, 1552; quo Temporis Intervallo, *Stella fixa* antrorsum se transtulerunt $21^{\circ} 33' 30''$; *Ptolemai* idcirco Tempore verus *Spicae* & Locus fuit $27^{\circ} 58' 00''$ ejusque Declinatio Meridionalis $01^{\circ} 03' 17''$, Quam tunc Temporis observatam prodit tantum $00^{\circ} 30' 00''$ versùs Meridiem, sive $00^{\circ} 33' 17''$ Minorem quàm *Timocharidis* Observationibus, vel etiam nostris, fieri potuit.

potuit. Horum verò Discriminum Causam indagare nobis est operæ prætium.

Timocharis & *Eratosthenes*, ferme contemporanei, apud *Alexandriam* Observationibus vacarunt: quum autem *Eratosthenes* (narrante *Bulialdo*) *Alexandriæ Armillas* erexerit; *Spicæ* & *Virginis* Declinationem, a *Timocharide* nobis proditam, istis Armillis fuisse observatam, verisimile est: & quamvis illas fuisse *συμμετρος ἢ μεγάλης* *Mediocris Mensuræ* asserit *Ptolemæus*, nihil tamen de illarum Diametris ullibi tradidit.

Proclus autem in sua *Hypotyposí Astronom.* Cap. 2^{do} Instrumentum hoc Armillare ad fumentam *Tropicorum* Distantiam describens, illud Magnitudinis *Mediocris* necessariò esse ait, uti postea verbis disertioribus, *habens Diametrum hand quaquam Minorem Dimidio Ulnæ Magnitudine, ut sit sectionum ex Centro ferme 60, atque Crassitudo ipsius sit talium sectionum quatuor, Latitudo autem Duarum & Dimidia*, id est, ejus Diametrum non esse Ulnæ Dimidio Minorem asseruit: quænam verò fuit inter *Procli* Ulnas nostrasque Analogia, nobis est incompertum; ideoque in explorando Instrumenti istius *Diametro* adhuc deficiamus, eadem licet Phrasi cum *Ptolemæo* utatur *Proclus*, illumque etiam *Diametrum* *Mediocris* Mensuræ necessariò esse asseruit.

secundum Georgii
Valla versionem

Si *ὅλην* *Ulna* Distantiam inter Digitorum Summitates, Brachiis ad Amussim extensis, æquaret; tum Ejusdem Dimidium (sive Armillarum *Diameter*.) tripedale fuit, earumque *Semidiametri* nostrorum Pollicum octodecim comprehendebant: atque hac Ratione Gradus unusquisque in *Armillas* exaratus, facili Negotio in sex partes, vel sexies Minuta decem, fuit dividendus, imò reapse divisus: aut *Solis Siderumque* Declinationem ad dimidiam usque Divisionem, sive ad *Quinque Minuta*, fortassis concluderent sive determinarent; quâ Divisione, quarumvis *Fixarum* Longitudines aut Latitudines in *Hipparchi* ac *Ptolemæi* Catalogis, nunquam comperio præcisius notatas. Hæc 5 *Minutorum* Divisio omnium videtur accuratissima, quam Veteres hoc Instrumento sibi assumere poterant; cujus Adminiculo *Eratosthenes* Spatium delineaverat inter *Tropicos*, undecim talibus partibus constans Circuli, cujus *περιφέρεια* talibus partibus 83 constabat: unde *Eclipticæ* Obliquitas comperta est 23° 51' 20" cui suffragantur & *Hipparchus* & *Ptolemæus*. Quamvis autem ad *Eclipticæ* Obliquitatem decernendam *Armillis* suis utrique

utrique hi magni Viri adquiescerent; ad *Luna* tamen *Parallaxes* definiendas, utpote Inventu difficiliore & accuratiùs peragendas, utebatur *Ptolemaus* Regulis *Parallacticis*, quarum Lib. V. Cap. 12. *Radium* 4 Cubitorum vel 6 Pedum esse describit.

Armilla Regulæque *Parallactica* ARABIBUS non erant ignota, qui etiam *Quadrantes* Radium ampliorum & *Sextantes* fabricati sunt: ut *Cl. Viri* Doctoris *Bernard* Narratione, de *Ecliptica* Obliquitate ab *Arabibus* diverforum Seculorum determinatâ, nobis liquidò constat; qui etiam vivâ voce mihi ipsi narravit, Eorum Quendam instituisse *Comparisonem* scriptam suorum Instrumentorum cum *Istis* Veterum; ut inde *Arabum* Observationes *Istis* *Græcorum* esse Accuratiore probaret: Quando verò ille Tractatus a quodam Linguae *Arabica* & hujusce Argumenti gnaro eventilabitur, istarum Observationum Ratio magis enucleata nobis est expectanda.

Ptolemaus (Lib. III. Cap. 2.) Tempora nobis tradit *Æquinoctiorum* *Autumnalium* quinque, ac trium *Vernalium*, ab *Hipparcho* observata; qui *primum* *Vernale* hisce verbis graphice depinxit, *viz.* Ἐν μὲν τῷ λ β ὦ ἐταί της τρίτης κατὰ Κάλιππον περιόδου, Μεχρὲ καὶ πρώτης, καὶ ὁ Κείνος δὲ φησιν ὅτι ἡ Ἀλεξανδρεία ἴσον ἐξ ἑκατέρου μέρους παραγυῖναι περὶ τῆς ὥρας, &c. Anno 32^{do} *Tertia* secundum *Calippum* *Periodi*, *Mensis* *Meichir* die 27^{mo} aiunt, *Armillam* in *Alexandria* erectam, utriusque, sive ambobus *Lateribus*, aequaliter fuisse collustratam, *Temporis* *Matutini* horâ 5^a, &c. Exinde autem idem *Æquinoctium* per quinque plus minus horas diversimodè fuisse Observatum videtur in eadem *Armilla*. Eodem Capite, *Armillas* ad errandum prodices esse ad usque *Diei* *Quadrantem*, in aptandis & *Solstitiorum* & *Æquinoctiorum* *Temporibus*, fatetur; additque paucis ab hinc *Lineis*, Hunc *Armillarum* *Errorem* *Ortum* ducere a graduale *Deflectione* sive *Distortione* imperceptâ *Planitie* *Circuli* *istius* qui *Circulum* *Æquinoctialem* in *Armillis* adumbrat; "sicut in *duabus* " *Armillis* *æneis* apud nos in *Palestra* *Alexandrina* suspensis, " videre est, maximè verò in istâ *Ampliori* & *Antiquiori* " *Armilla*; in qua tanta fuit *Planis* *Deflectio*, ut nonnunquam " etiam bis (uno eodemque *Die*) in eisdem *Æquinoctiis* ipsarum " *Superficies* *Cava* sive *Cavitatis* (vel interior *Annuli* *Superfici* " *cies*) *illuminata* *sint* *Æqualiter*; ut supra inuimus."

Refractionum

Refractionum Potestas illorum Temporum Hominibus fuit ignota : quum autem *Hipparchus*, æquè ac *Ptolemaus*, observârit Circuli *Æquinoctialis Cavitatem*, sive Superficiem internam, bis uno eodemque Die fuisse æqualiter collustratam ; Armillas a Positurâ ante Annos 280 ab *Hipparcho* ipsis datâ non deflexisse, vel distortas fuisse, contra *Ptolemai* Opinionem concludere fas est ; ac præterea, ipsum *Ptolemaum* Armillæ, sive *Keids* fui, Circulum *Æquinoctialem* variasse, ut nimirum *Poli* Elevatio fuerit adaucta & suæ *Æquinoctialis* Elevatio imminuta, quasi unius Gradus Dimidio, sive 30 Minutis, plûs quàm erat ab *Hipparcho* relicta : quâ Variatione Declinatio *Spica Virginis Ptolemao* visâ foret quasi 30 Minutis minor quàm revera fuit, & fieri debuit ; sicut *Timocharidis* Observationem cum ista *Ptolemai*, illâque Declinatione ab Eximio & Nobili *Tychone* nobisque notatâ, conferendo, plenè ac planè a Nobis est repertum.

Hæc mea Opinio fulciri videtur, per Tempora *Æquinoctiorum*, Autumnalium ab illo observata, *Unum* viz. 7^{mo} Die Mensis *Ægyptiaci Athyr*, horâ 2^a pomeridianâ, Anno *Nabonassari* 880, & *Æra Christiana* circiter 133 ; atque *Alterum* Anno *Nabonassari* 887, ejusdem Mensis *Athyr* die nono, horâ quintâ antemeridianâ. Nam si idem *Locus* ad ista Tempora supputetur ex Tabulis *Solaribus*, quæ *Hipparchi*, *Bernardi Walteri*, *Tychonis*, nostrorumque *Recentiorum* Observationem optimè exhibeant (qui *Locus*, idcirco, *Ptolemai* diebus, a Vero non multum distabat) inde experiemur *Solem* fuisse in $\approx 01^{\circ} 18' 00''$ quum primum prædictum *Æquinoctium* Autumnale notatum ponit ; ac Tempore secundi, *Solem* versari in $\approx 01^{\circ} 14' 00''$. Adeo ut manifestò apparet, in utroque hoc observato *Autumnali* *Æquinoctio*, *Solem* versus Meridiem per 30' circiter Minuta declinasse, dum *Ptolemao* nulla fuit *Solis Declinatio* ; & quod ille *Polum* in Armillis erexerat, ut Errorem castigaret quem, sine Causâ, factum fuisse suspicaverat ex *Armillarum Deflexurâ*, sive Distortione, a *Positione* quam initio Illis dederat *Hipparchus* : atque hoc magis videtur probabile, quod per Declinationem *Spica* $\approx$ ab illo observatam, Idem fuerit antea exploratum.

In *vernali* autem suo *Æquinoctio*, eodem *Nabonassari* Anno 887 (Anno Domini circiter 140) Mensis *Pachon* die 7^{mo} Horâ unâ pomeridianâ observato, præfatæ *Tabula Solares Solis Locum*

in π $29^{\circ} 49' 00''$, five Solis *Declinationem* quatuor tantum ad Meridiem Minutorum, & quàm proximè ad Tabulas accommodatam, præbent: Quod Suspicioni Locum dat, hoc *Æquinoctium vernale* non per *Armillas*, five suum *Κελευθ*, a *Ptolemao* fuisse observatum, sed subductum tantum ex Meridionalibus Solis in *τῷ Zenith Distantiis*, notatis per suas Regulas *Parallacticas* in quatuor Cubitos productas, quibus ad maiorem ἀκρίβειαν usus est, quum *Lunam* in Circulo notavit *Meridiano*. Atque hanc esse Rationem proximioris Congruentiæ inter hoc notatum *vernale Æquinoctium* ac Tabulas *Solares* prædictas, conjicio; dum *duo ista* alia *Æquinoctia* tam enormiter ab *illis* discrepant Tabulis: est equidem hæc mera mea *Conjectura*, pro qua non est litigandum, sed tantum donec Nonnullus, æquè expertus & candidus, hanc meam castigarit, vel Opinione sit impertitus verisimiliorem.

PLINIUS, *Traiani* Imperatoris Tempore clarus, Lib. II. Cap. 41. ante *Ptolemaum* Annis quasi 40, nobis narrat, Philosophos tunc Temporis *Loca* notasse *Fixarum* Stellarum 1600 in Constellationibus 72. *Ptolemaus* autem nobis prodit *Loca* tantum *Fixarum* 1022 in Constellationibus 48. Quum autem PLINIUS *Hipparchum* magnis prædicet Laudibus, illumque, suo Testamento, suum *Fixarum Catalogum* Posteris legasse dicat; procùl Dubio sequetur, tam *Constellationum* in isto Catalogo, quàm *Fixarum* in unaquaque Constellatione Numerum, *Plinio* non fuisse incompertum.

In *ARABUM Catalogis* idem est tum Constellationum tum *Fixarum Numerus*, ac in *Ptolemai* Catalogo, repertus viz. 1022 *Fixarum* in 48 *Constellationibus*: atque apud me Domi sunt Figuræ *Atlantis*, Globum Cœlestem in Humeros gestantis, in quo idem Constellationum *Numerus*, ac in *Ptolemai* Catalogo, inscriptus est; Clarissimus autem Dominus *Bilanchini*, qui me hoc *Atlante* donavit, illum fuisse fabricatum opinatur *Ptolemai* diebus, & sub ANTONINORUM Imperio, in quorum *Nummos* illum signatum fuisse dicit. Si autem *Romanis* fuerint tantum Constellationes 48, ac in iisdem *Stella Fixæ* 1022 tantum disponantur; ubi, quæso, reliquæ 24 Constellationes, Stellæque ampliùs 578, a *Plinio*, Annos circiter 35, vel ad summum 42 tantum (forsitan primo *Traiani* Anno) ante hanc memoratæ, deprehendantur? Nostris equidem ANTIQUARIIS, five Rerum *Antiquarum* viris peritissimis, magnopere

magnoperé devincti erimus, si hac de Re certiores nos facere possint.

Ptolemans, æquē ac *Plinius*, *HIPPARCHUM* magno celebrat Encomio, eum φιλαλαστήν, ac Assiduitate delectatum, nuncupans, atque *Stellas Fixas* per Annos 265 ab *Hipparchi* diebus ad sua usque Tempora interlapsos, $02^{\circ} 40' 00''$ antrosum fuisse exagitatas; id est, Earum *Motum* per centum Annos ex uno integro Gradu constare; Earum autem *Latitudines* fuisse invariabiles, seriō certat. Veruntamen, se operam navasse in observandis omnibus hujus *Catalogi* *Stellis*, aut *Semetipsum* omnium in eodem *Catalogo Stellarum Loca* propriis deduxisse Observationibus, nullibi affirmat: ideoque *Ptolemæi* *Catalogum eundem* esse ab *Hipparcho* Posteris literatis legatum, ab ipso *Ptolemao* ad sua Tempora (Annum *Antonini Pii* circiter primum vel tertium) reductum & adaptatum; addendo, scilicet, in *Hipparchi* *Longitudines* $02^{\circ} 40' 00''$, ejusque transcribendo *Latitudines* immotas vel immutatas, perquam videtur probabile.

Timocharidis enim & *Hipparchi* Observationibus collatis cum istis Nobilissimi *Tychonis*, *Hevelii*, nostrisque, *FIXARUM* Motus, spatio Annorum 265 reperitur fore $03^{\circ}, 40', 50''$, idest, Gradu integro major quam a *Ptolemao* fuit decisus: idcirco Earum *Longitudines* in ejus *Catalogo*, supra *Locum* ab illo datum, uno Gradu sunt promovendæ; atque subtrahendo $02^{\circ} 40' 00''$ ab ejus *Longitudinibus*, in *Locum* Numerumve suum *Hipparchi* Tempore primigenium, facile reducentur. Sed né diutiùs *Armillis Ptolemaicis* immoremur, Nullus dubito eas fuisse ejusdem Amplitudinis ac fuere Instrumenta ad notandam *Ecliptica* Obliquitatem depicta graphicè a *Proclo*, nobis narrante; Quod " Si Distantia inter sui Circuli *Centrum* & *Limbi* Υποκεντρικῆς Λιβ.
II. Super meridiem Περὶ ὀφθαλμοῦ extremam, in 60 Partes æquales fuerit interfecta; Tunc a *Centro* ad ejusdem Circulum *interiorem*, tales Partes 56 contineri oportet; id est, *Limbi* *Latitudo* quatuor Gradibus, ejusque *Densitas* duobus Gradibus ac Triginta Minutis fuerint æquales.

Duplicem Methodum quâ Veteres *Fixarum* collegerunt *Loca*, UNAM, nempe, ex Observationibus in *Armillas* peractis, ALTERAMQUE ex *Luna* ad *Fixas* Applicatione, nobis monstrat *Ptolemæus*; ubi suas Tabulas, tam *Solis* quam *Luna* *Loca* Cœlestibus Earum *Locis* conformia, Lib. VII. Cap. 2.

præbere

præbere opinatur; quanquàm eas Tabulas non ita præbuisse istâ Loca certissimum est: Maximam enim *Orbita Solaris* Æquationem 24', circiter, Minutis majorem facit quam fuit ab *ALBATANIO* (sive *Albategnio*) post Annos 750 defixa; ac insuper Seculorum præsentis nempé, & proximo-præcedentis Observationibus adinventâ; atque ex nuperorum *Astronomorum* hac de Re Consensu, cum *Albatanio*, Annis retró 800, apud *Muhammedanos* Observatore Clarissimo, (regnante *Alfredo* Magno *Angliæ* Rege) firmiter est arguendum, *ORBITÆ TERRENÆ Excentricitatem ab Hipparchi diebus ad nostra usque Tempora, Eandem semper perstitisse ac invariabilem.*

Ptolemaus (Capite supra dicto) *Hipparchum*, ad Fixarum Loca determinanda, Observationibus, durante Lunarium Eclipsium Tempore, peractis, usum fuisse, obscurè indicat: atque hoc optimè fuit excogitatum & permagno illo Veritatis Amatore dignum, qui *Lunarium* Eclipsium suo Tempore vel antea eventarum Observationes comparando, *Orbita Lunar* PRIMAM (uti illam nuncupat *Ptolemaus*) *Inæqualitatem* investigaverat: SECUNDA verò a *Ptolemaeo* aliisque postea determinatâ Inæqualitate, ac TERTIA quoque a *Tychone* inventâ, tunc Temporis *Hipparcho* planè incompertis, hæc ejus imperfecta *Methodus* tutò nunquam usui Astronomico potuit adhiberi. In *veteres* autem *Philosophos* acerbè invehi non nostrum est; Quibus, quippè, pro præviis Eorum Conatibus, penitus obligati sumus: sed potiùs nobis est agnoscendum, Eorum operationes & Præstationes haud minus eximias fuisse ac speciosas, quàm *ASTRONOMIÆ Infantia* suppeditare valuit; Eorumque *clarissima Nomina*, hic aut ubivis Gentium, omniumque Seculorum *Viris erudit*is grato animo traducere debemus, ob Eorum in Re Astronomicâ Successus *Nobis* feliciter tractuctos.

Ptolemai Methodus, ad vera *Fixarum* Loca investiganda, meliùs est subintelligenda, per Specimen a Seipso propositum, *Antonini Pii* Anno 2^{do}, Mensis *Pharmuthi* Die nono, paulò ante *SOLIS* Occasum, & quum *Tauri* Pars posterior in *Meridiano* fuit conspecta; id est, Horis æquabilibus 5 pomeridianis & *Sole* per tres *Piscium* & Gradus tunc præterlato; " Apud *Alexandriam* inquit, observavimus *Lunam* à *Sole* " distitam *Gradibus* 92 $\frac{1}{2}$ in Longitudine: atque Semihorâ " elapsâ, vel citò post *Solis* Occasum, quum *Quarta* " *Geminorum*

“ *Geminorum* Pars esset *culminata*, sive Culmen suum pertingeret (Circulo, in quo observabatur *Luna*, primam suam Positionem adhuc immobilem custodiente) tunc *STELLA* in *Corde Leonis* in altero mobili *Longitudinis* Circulo conspecta, *Gradibus* constare $57\frac{1}{2}$ in *Luna Consequentia* & in *Longitudine* investigabatur. In primâ autem Observatione

— “ *Sol* versabatur in signo π ————— $03^{\circ} 03' \frac{1}{2}$,
 — “ *Sol* distabat a *Luna* tunc in *Longitudine* } $92, 07\frac{1}{2}$,
 “ ac in *Consequentia* ————— }
 — “ Ideoque *Luna* Locus visibilis in π ————— $05, 10\frac{1}{2}$,
 — “ *Lunaque* Motus per unam Semihoram } $00, 15, 15''$
 “ in *Consequentia* ————— }
 — “ Ejusque *Parallaxis* augescens in *Antecedentia* $00, 05$,
 — “ Quapropter *Luna* Locus visibilis horâ 6^a } $05, 20, 20''$.
 “ pomeridianâ in π fuit ————— }
 — “ Atque *Cor Leonis* in *Luna Consequentia* $57, 10$,
 — “ Adeo ut Locus in *Corde Leonis* tunc fuit α $02, 30$, idest, sicut ille supputat $02, 40$, in *Consequentia* Loci in *Hipparchi* Catalogo huic *Stellæ* assignati: additque, porro, *LUNÆ Locum per suam Observationem repertum, eundem esse in suâ Hypothesi* (sive suis *Tâbulis*) *proditum*. Hic tamen Nobis est animadvertendum, quod hac Observatione sub *Solis* Occasum peractâ, *Refractio* illum, nempe *Solem*, unum circiter *Semigradum* elevavit, & *Longitudinum* Differentiam supra; tertiam *Gradus* partem plus iusto præbuit.

Hipparchus & *Ptolemæus* has *Refractiones* non percipientes, exindè forsitan maximas *Orbitæ Solaris* *Æquationes*, uno ferme *Semigradu* majores notarunt quàm reverâ sunt, semperque fuerunt: *Solis* enim a *Polo* visibili *Distantiæ* *Refractionibus* erant diminutæ; ac proindè ejus *Longitudines*, quum ex π in γ transiret, majores comparebant & minores in ejus *Transitu* ex π in α , tantò propemodùm quò maximas *Æquationes* Majores & ulteriùs iusto notarunt: atque hoc modo *Phænomeni* istius *Rationem* reddiderunt *Veteres*, suasque *Tâbulas* & *Observationes* concordatas secerunt.

Has *Observationes Horizontales* magis explorandas fuisse ac indubias, fortè duxerunt, illisque impenitus nixi sunt; quia *Solem* *Occidentem* nudis oculis per *Lumina nuda* in *Armillas* fixa adspicere potuerunt, quod, *Sole* plus 5 *Gradibus* supra *Horizontem* extante fieri nequivit. *Horizontalis Refractio* forsitan *Ansam* præbuit

Eratostheni, Hipparcho, ac Ptolemaeo ad maximam Solis Declinationem determinandam fore $23^{\circ}, 51'$, vel circà $20'$ plùs minùsve quàm reverà fuit unquam. Nam si *Solem orientem* vel *occidentem* per nuda *Armillarum* Lumina, Solstitii *Æstivi* Tempore, sint contuiti; & si Refractio *Horizontalis* supponetur fuisse circà 33 *Minutorum* (sicut apud nos Jam invenitur) tunc *Refractio* in Declinatione 20 foret *Minutorum*, & maxima *Declinatio* foret $23^{\circ}, 31'$, vel duobus circiter Minutis Amplior quàm a nobis jam supputatur.

Si Veteres autem isti Solis *orientis* vel *occidentis*, & in signum *Capricorni* intrantis, Declinationem Armillis suis observassent, maximam ejus Declinationem versùs Meridiem fore tantùm $23^{\circ}, 09'$, planè invenissent: eàdem de Causà, Refractiones Ansam Veteribus præbuisse maximam Solis Declinationem determinandi $20'$ *Minutorum* plùs Vero fuisse, fidenter asserere nequeo; quanquam Suspicioni sit Locus, præsertim ob diversas maximarum Solarium apud eos Declinationum Determinationes. Atque hæc Armillæ a proximo-sequentibus in *Arabia* Observatoribus neglectæ jacebant; *Arabes* enim Regulis *Parallacticis Ptolemaicis*, suisque inventis Sextantibus & Quadrantibus tantùm, non verò istis Armillis, Observationes suas fecisse legimus.

Arabes primò Solarium Motuum Tabulas emendare, ideoque veram *Eclipticæ* Obliquitatem invenire, conati sunt: Eorumque Determinationes secundùm Tempora successivas describam; quibus Lectori liquidò constabit, quòd etiam si ab Antecessorum Determinationibus ægrè aberrarunt, gradatim tamen *Veritas* prævaluit, ac demùm in eàdem *Quantitate* hujus & Nuperorum seculorum Observationibus inventà, fuit stabilita.

ALMAMON BABYLONIÆ *Caliphus*, qui *Ptolemæi* *Almagestum* in Linguam *Arabicam* traduci jussit, Anno nempe

Hegira 205 } *LUDOVICO* *Piq* Romanorum *Im-*
Æra Chr 827 } *peratore* & *EGBERTO* totius *Angliæ*
Rege primo, regnantibus;

Hegira 210 } a Regulis, inquam, *Ptolemaicis*
Æra Chr. 832 } primus dicitur *Almamoni* aberrasse,
ac Instrumento nobis adhuc ignoto
SOLIS Declinationem five ZODIACI
maximam *Obliquitatem* invenit $23^{\circ}, 35', 00''$

In *Berna* M. 10
ad
M. 10. 11. 12.
Paul. Trans. N.º
163. *Septemb.*
17. Anno 1684
17. 18. 19. &
20.

Quæ etiam observata fuit a
 JAHIA EBN ABIMANSUR aliisque *Il-*
mamonis Tempore Astronomis.
 Eodemque Ævo
 BENI MUSA apud BAGDAT in
 Campis *illam* reperit etiam — 23°, 35', 00"

Hegira 269} MAHOMMED EBN GABER (vulgo
Æra Chr. 891} *Al Bategnius* vel *Al Batanius*)
 longissimâ ALHIDADA, sive Regulâ
 parallactica ad Forniam *Ptolemai-*
carum perlongâ, apud RACCAM in
Mesopotamia, illam quoque a *Pto-*
lemai Λαζαρὶ diverfam 16' invenit 23, 35, 00

Hegira 289} THABET EBN CORRA illam reperit 23, 33, 30
Æra Chr. 911} a *Ptolemai* Declinatione diverfam
 18', 30"

Hegira 348} ABU JAAFAR AL CHAZZAN,
Æra Chr. 970} apud EDESSAM, ejusque Amicus
 ABUL FADLO, istam non penitus
 fuisse ————— 23, 35, 00

sed aliquantô minorem, Judicarunt

Hegira 377} ABUL WAFI AL BUZIANI &
Æra Chr. 999} ABN HAMED *Saganiensis*, magni
 Ingenii vir, apud BAGDAT Λαζαρὶ
 invenerunt tantum non ————— 23, 35, 00

Sicut etiam observatur ab
 ABUL HOSEIN EBN SUPHI, & ab
 Auctore *Persâ* Anonymo, & in
 Tabulis *Persicis* Chrysococcis

Hegira 382} ABU MAHMUD AL CHOGANDI,
Æra Chr. 1004} tempore FECRODDAULT, *Sextante*,
 cujus *Radius* erat Cubitorum qua-
 draginta, *Limbusque* in Minuta
 secunda distinctus Λαζαρὶ invenit
 minorem quàm unquam captave-
 rat Majorum suorum Aliquis,
 nimirum a *Ptolæmai* Λαζαρὶ diver-
 sam 18', 39". ————— 23, 32, 21

Hegira 385 } AL BATRUNIUS ABUL RIHAN,
Æra Chr. 1007 } usus est *Quadrante* cum *Radio*
 quindecim Cubitorum, & $\Lambda\sigma\zeta\omega\tau\iota\nu$
 observavit fuisse ad summum — $23^{\circ}, 35', 00''$

Hegira 482 } ARZACHEL *Hispanus* $\Lambda\sigma\zeta\omega\tau\iota\nu$ proposuit 23, 33, 30
Æra Chr. 1104 } & sic inter *Ptolemai* & *Artzachelis*
 $\Lambda\sigma\zeta\omega\tau\iota\nu$ Differentia etiam inter-
 cedit $18' 30''$.

Hegira 518 } ALMEON *I: Almanforis* illam
Æra Chr. 1140 } quoque invenit — 23, 33, 30

Hegira 552 } Rabbi MOYSES BEN MAIMON
Æra Chr. 1174 } *Judaorum* eruditissimus (vulgó
 MAIMOINDES) in *Jad: de Consecrati-*
one Calendarum, Maximam *Zodiaci*
Obliquitatem asserit propemodum 23, 30, 00

Hegira 668 } Sed COJAH NASSIR ODDIN, No-
Æra Chr. 1290 } bilis *Persa Tusensis*, apud MARA-
 GAM accuratissimé *istam* observa-
 vit fuisse — 23, 30, 00
Minima quidem ex Maximis *Solis*
Declinationibus reperta, & a *Ptole-*
mai Declinatione diversa $21'$.

Hegira 678 } PROPHATIUS JUDÆUS illam reperit 23, 32, 00
Æra Chr. 1300 } a *Ptolemai* $\Lambda\sigma\zeta\omega\tau\iota\nu$ diversam $19'$

Hegira 711 } ISMAEL ABULFEDA *Hama* Prin-
Æra Chr. 1333 } ceptus in Tabulis suis MSS *Arabicis*,
 forté ob *Almamonis* auctoritatem,
 retinet *istam* esse — 23, 35, 00

Hegira 741 } EBN SHATIR *Damascenus* se Ob-
Æra Chr. 1363 } liquitatem emendasse dicit, *Solis*
 etiam *Parallaxi* (quæ *Horizontalis*
 capta est $02', 59''$) non neg-
 lectâ; atque *Declinationem* *Solis*
 maximam computat esse — 23, 31, 00
 a *Ptolemai obliquitate* diversa $21'$.

Hegira

Hegira 841 } *OLEG BEG* (vel *Bieg*) Princeps
Æra Chr. 1463 } *Tartariensis*, *ALI CUSHGI*, aliique
Astronomi, amplissimis Instrumen-
 tis summæque Curâ, *Illam* exqui-
 sitim invenerunt ————— 23°, 30', 17".
 a *Ptolemæi* *Λοξωσι* diversam 20° 43".

Atque hic animadvertendum est, præfatum *Albategnium*, præ-
 ter *Ecliptica* Obliquitatem, *Apogei* quoque *Solaris* Longitu-
 dinem suo Tempore determinasse ————— in π 22°, 17', 00".

Hegira 261 } & maximam *Terrena Orbita*
Æra Chr. 883 } *Æquationem* fore ————— 01, 59, 04

Annoque præcedenti

Hegira 260 } *Æquinoctii Autumnalis* Tem-
Æra Chr. 883 } pus, per *Solis* *Altitudines* *Me-* In Libro suo de Sci-
 entia Stellarum, Cap.
 27 & 28.
ridionales, *Regulis* suis *Parallacticis* observatas,
 fixum habuit *Albategnius* 8^o Die *Mensis* $\tau\epsilon$ *Pachon* (Anno cir-
 citer 1206 post *Alexandri Magni* Obitum) ad 4^h, 45', ante
Solis Ortum apud *Araclam*; id est, 7^o Die $\tau\epsilon$ *Pachon*. (sive
 18^o nostri *Septembris*) ad 13^h, 15', P. M. *ibidem*, vel ad 10^h,
 30', apud *Greenwich*; si nempè *Meridianorum* *Differentia*
 inter Urbem *Raccam* nostrumque *Observatorium* supponetur
 fore 2^h, 45'.

Parallaxin SOLIS horizontalem in ejus infimâ *Distantiâ* fu-
 isse 3', post *Ptolemaum* opinatus est *Albategnius*: Sin autem
 suas observatas *SOLIS* *Altitudines* per *Parallaxin* in *Solis* *Au-*
stralibus *Altitudinibus* sive *Meridionalibus* suppositam (quam
 1', 45" computavit, quum tamen 8" tantum fuit) castigandas
 habuerit; sequetur, hunc *Astronomum* computasse *Æqui-*
noctium unâ *Horâ* & fermè *Horæ* $\frac{1}{2}$ plus *Iusto* præmaturum:
 Quum autem ex ejus hac de *Re* *Scriptis* non planè constet
 utrùm *Parallaxin* consideraverit vel non; *Tempus* illud, ut
 ab *Eo* traditum, pro Vero accipere Nobis incumbit: atque
 tunc *SOLIS* *Loco* secundum *Tabulas* meas, ad *Albategnii* datum
Tempus computato, illum *Locum* fuisse reperio in α 3' 10"

Albategnius, porro, se accuratis multorum Annorum *Ob-*
servationibus, quâ potuit *Diligentiâ*, *Tempus* ab *Æquinoctio*
Autumnali ad proxime-sequens *Vernale*, invenisse dicit pro-
 pmodum ————— Dies 178, Horasque 14;
 Sed a *Vernali* ad *Autumnale* fuisse ————— Dies 186, Horasque 14;

H

unde

unde *Æquinoctiorum Vernalium* proximè-præcedentium & subsequen-
tium *Tempora* (cum *SOLIS Locis* ad *Tempora* com-
putatis) erunt reperta, scilicet,

Anno <i>Hegira</i> —266	die		
<i>Æra Chr.</i> —883	Martij 15	19 ^h 45'	<i>SOLIS Locus</i> in π 29°, 57', 54"
<i>Hegira</i> —261			
<i>Æra Chr.</i> —883	Martij 16	1 ^h —	<i>SOLIS Locus</i> in π 29°, 56', 38"

Horum *Æquinoctiorum Tempus* per Dierum naturalium *Æ-*
quationes non castigavi; quanquam per talem Castigationem
nostræ Tabulæ *SOLIS Loca* Punctis *Æquinoctialibus* 20" darent
proximiora: est enim *Temporis* Quantitas non multum con-
sideranda.

Hinc nostras Tabulas *Solares*, *SOLIS Locis*, per octingentos
hactenus observatis Annos, sat benè quadrare, meridianâ Luce
patet: ideoque non mirum est *Nostras* differe a *Ptolemaicis*
Tabulis per *Eratosthenis* *ARMILLAS* exaratis; quarum *Armil-*
larum Positio primigenia, verisimile est, a *Ptolemao* depravata
fuit, quum istas castigare decrevit, & quas a se reverà fuisse
castigatas forsân est arbitratus.

Albategnius etiam Nos facit certiores, quod sua *Fix-*
arum *Loca* cum istis a *Ptolemao*, ante Annos 783 obser-
vatis, comparando, *Loca* per istos Annos invenerit processa

Ideoque illorum Locorum *Motum* per Annos 66,
fuisse dicit ————— 11°, 50', 00"

Quum tamen *Ptolemaus* eorum *Motum* per 100
Annos fecerit tantum ————— 1°, 00, 00

Ptolemaum autem *Hipparchi* Catalogum tran-
scripsisse, in quo *Fixarum* *Loca*, ulteriùs
Iusto per unum quasi Gradum fuerunt retropo-
sita, hactenus reddidi probabile. Atque hoc
in Casu, *Fixarum* *Motus* a *Ptolemao* ad *Alba-*
tegnium usque, in Annis nempe *Ægyptiacis*
783 tantum foret ————— 10, 50, 00

Sive in Annis *Julianis* 72 $\frac{1}{2}$ tantum foret ————— 1, 00, 00

Id est, secundum nostrum Calculum hodiernum,
quovis Anno foret ————— 0, 00, 50

Omnium etiam *Planetarum* infimos *Motus* notatos correxit,
novaque

		Clara Nephelina Tabe in Tabell. 108 Ann. Chr. 1133.				Adelphina Segula in Gentilich. Ann. Chr. 1151.				Ex Causibus Perfor- ram Pindarichian Ann. Chr. 1146-9 Mellize 338.				Ex Causibus Perfor- ram Pindarichian Ann. Chr. 1146-9 Mellize 338.			
		Longit.		Latit.		Longit.		Latit.		Longit.		Latit.		Longit.		Latit.	
		5	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0
1	Ultima fluvii	Y 24	55	51	45	Y 6	45			Y 0				Y 18	20		
2	Lucida Cathedra Cassiope	24	35	51	40	25	2										
3	Persei Caput Medusæum	8 16	25	23	0	8 16	52			18	10			8 17	45		
4	Oculus Tauri Austrinus	29	22	5	13	29	45			II 1	30			II 1	0		
5	Orionis Pes sinister	II 6	35	31	30	II 6	52			8	20			8	0		
6	Capella Aurigæ	11	10	22	40	11	43			13	3			13	10		
7	Orionis Humer. dext. Non- nullis hum. fin. præced.	18	0	16	50	19	12			20	30			18	10		
8	Syrus	3 3	50	39	10	3 4	28			18	0			3 6	0		
9	Procyon	15	45	16	5	16	11			18	0			17	20		
10	Cor Leonis	8 19	14	0	17	8 19	42			9	31			8 20	40		
11	Spica Virginis	13	25	1	52	13	26			15	10			13	15		
12	Arcturus	13	0	21	25	13	47			15	30			14	10		
13	Antares	II 29	0	4	10	II 29	45			I 1	10			I 27	40		
14	Caput Ophiuchi	I 11	15	35	55	I 11	49			0				0			
15	Lucida Lyrae Vultur cadens	W 4	40	61	50	W 5	38			5	0			W 5	30		
16	Aquila lucida Vultur volans	20	40	29	15	20	56			22	20			22	0		
17	Lucida in Cauda Cygni	22	24	30	59	22	15			10	20			27	18		
18	Lucida in Cruce dext. Pegasi	H 18	44	31	12	H 18	58			20	40			H 20	20		
19	Ala Pegasi Ultima	18	55	31	1					0				0			
20	Persei Lucidum Latius	8 21	35	30	0	8 22	2			0				0			
21	Cauda Leonis	W 11	55	11	50	W 11	38			W 13	0			W 12	40		
22	Os Piscis Australis	W 23	45	23	0	W 23	52			0				0			
23	Canopus	3 3	55	75	0	3 4	3			0				0			

	Solentibus Aliquis ad Libellum pro Ann. Chr. 1416.	Ex Solentibus Aliquis Ann. Chr. 1417.	Quandis Asteris in Tabulis inferius Ann. Chr. 1418.	Mohammedi Thana Ann. Chr. 1513.	
	Afcenf. Decl.	Longit. Latit.	Longit. Afcenf. Decl.	Afc. Rec Decl.	
	0 10 20	0 10 20	0 10 20	0 10 20	
1	Ultima fluvii	132 10 41 30	T 15 40 53 45	T 20 34 129 30 17 0	130 17 41 0
2	Lucida Cathed Cassiop.	84 2 55 45	28 1 50 48	18 16 83 50 55 30	86 55 56 41
3	Perfei Caput Medusæum	127 44 39 4	8 18 54 22 0	8 20 4 127 55 38 50	130 14 39 49
4	Oculus Tauri Austrinus	150 20 15 20	II 2 31 5 15	3 4 149 50 15 0	153 0 15 43
5	Orionis Pes finifter	162 20 9 20	9 25 31 18	C 167 50 5 10	163 43 9 13
6	Capella Aurigæ	158 30 44 43	14 43 22 42	II 15 24 157 40 44 45	161 39 45 0
7	Orion. Hum. dext. Non- null. hum. fin. præced.	171 55 6 15	21 13 16 43	22 24 170 10 6 10	173 15 6 28
8	Syrus	185 45 15 43	3 6 19 39 30	8 4 4 184 20 15 45	187 0 15 50
9	Procyon	197 25 6 7	18 21 16 0	19 44 196 20 6 30	199 0 6 4
10	Cor Leonis	234 0 15 10	8 22 13 0 9	24 44 233 30 15 5	236 0 14 8
11	Spica Virginis	283 4 7 30	28 16 10 2 9	9 24 30 283 20 7 30	285 36 8 29
12	Arcturus	297 30 33 8	16 31 31 18	17 24 297 0 22 30	299 0 22 14
13	Antares	331 0 24 12	I 2 16 4 30	I 3 4 332 0 24 15	330 57 22 42
14	Caput Ophiuchi	347 5 13 20	15 13 15 51	W 7 44 4 0 38 30	348 57 13 9
15	Lucid. Lyrae Vult. cad.	38 32 4 20	W 8 19 62 0	24 14 20 0 7 5	38 37 5 29
16	Aquil. lucid. Vult. vol.	30 5 7 3	24 10 29 15	35 10 4 30	22 5 7 24
17	Lucid. in Cauda Cygni	36 25 43 15	22 28 46 59 42	8 22 34 36 20 24	0 35 4 43 50
18	Lucid. in Cru. dext. Peg.	68 50 24 30	H 21 37 20 51	T 2 24 85 5 11 30	71 0 25 16
19	Ala Pegasi Ultima	85 54 11 30	Y 1 22 12 34	127 20 1 40	88 10 12 23
20	Perfei Lucidum Latius	130 20 47 11	8 25 7 29 21	W 14 54 259 5 18 10	123 46 47 53
21	Cauda Leonis	259 20 17 55	W 13 49 12 0	W 24 24 261 20 17 55	261 20 17 55
22	Os Piscis Australis	67 25 35 2	W 20 40 21 30	181 15 51 50	69 45 33 51
23	Canopus	182 20 5 25			182 40 51 21

Loca ab *Abderamen Alsuphi* data in hanc Synopsin non transcripsi; quippé *Ptolemaum* prorsus est sequutus, fecitque suas Longitudines; addendo Longitudinibus *Ptolemaicis* $12^{\circ} 42'$, suasque Latitudines Canonem *Ptolemaicam* fideliter describendo.

Stellarum *Fixarum* Motus, per Annos 827 a *Ptolemao* usque ad *Abderamen* interlabentes, $11^{\circ} 29'$, repertus est: *Ptolemai* tamen *Locis* (ut supra semel iterumque monui) uno Gradu plus Justo retropositis, suam Castigationem fecisse debuit addendo Longitudinibus *Ptolemaicis* $12^{\circ} 29'$, non verò $12^{\circ} 42'$.

Ebnololami Loca non transcripsi; quoniam ejus Stellarum Latitudines ad istas *Abolchusan* accuratè quadrant; ejus verò Longitudines vix uno Semigradu sunt Minores Istis *Nassir Oddin*, cujus Loca sunt accommoda ad Annum nempe *Hegira* 611, & *Æra Chr.* 1233: Et quum *Persarum* Locis, ad Annum *Hegira* 493, & *Æra Chr.* 1115 aptatis, provectiora sint; concludendum est *Ebnololami* Longitudines Annum circiter *Hegira* 538, & *Æra Chr.* 1160, vel 1170, & tunc *Hegira* 548, fuisse adaptatas; non verò ad Annum *Æra Chr.* 960, & *Hegira* 338, sicut a *Fratre* meo erudito & Fatofuncto (vel Transcriptoris vitio, vel suâ Allucinatione) disponuntur.

Quum Stellarum itidem Longitudines, secundum Canones *Ilchanicos*, circiter Semigradum Istis *Ebnololami* tantum provectiores, atque tantundem Istis *Nassir Oddin* (in ejus Tabulis *Ilchanicis*) posteriores sint; Illas ad Annum *Æra Chr.* 1200, & *Hegira* 578 plus minus fuisse collocatas, probabile videtur; non verò ad Annum *Æra Chr.* 996, sive *Hegira* 374, sicut Illas ipse collocavit. Stellarum Longitudines *Nassir Oddin* quod attinet, Illarum Differentiæ ad Istas *Ptolemai* tam exquisitè quadrant, ut si a *Ptolemao* non sit Illas mutuatus; ad Illas tamen in Longitudinibus Earum. & Latitudinibus collocandis magnam videtur habuisse Rationem. Quanquam autem maximam SOLIS Declinationem determinando, Cœlorum Observatorem perquam solertem se exploratum habuit; in quibusdam tamen Determinationibus devius est æquè ac *Ptolemaus*, & non æquè enucleatus ac certè fuit ejus Antecessor *Albuchasin*, ejusque Successor *Oleg Bieg*.

Longitudinum in Fixis maximè conspicuis Differentias, a Principibus hoc *Tartariensis* observatas ac determinatas, cum Istis *Ptolemai*

conferendo, parum inter se discrepantes Ambas reperio, ejusque *Latitudines* raro ab Istitis *Abolchasin* parum diversas: sed ambas cum *Tychonis* seculo præcedenti, aut *Nostratum* hoc seculo, Determinationibus comparando; certum est, quibuscunque usi sint Mediis vel Instrumentis ad *Redarum* Ascensionum Differentias vel veras *Fixarum* Declinationes determinandas, in unius Gradus $\frac{1}{2}$ vel $\frac{1}{3}$ & interdum $\frac{1}{4}$ vel amplius a Vero aberrare obnoxii fuere. Determinationes autem *Oleg Bieg* nostras magis appropinquant.

Inter Annum $\left\{ \begin{array}{l} \text{Hegira } 278 \text{ \& } 678 \\ \text{Æra Chr. } 900 \text{ \& } 1300 \end{array} \right\}$ *Thebit Ebn-Corrah*, *Arzabel*, *Alfraganus* & ALFONSUS *Arragonia* Rex, ad SOLIS & Planetarum Motus representandos, *Tabulas* composuerunt Astronomicas; in quibus Tabulis, Eorum alii *Ptolemaum* in Determinationibus præviis alii *Albategnium*, sunt sequuti, & alii, miris Artificiis, suas Determinationes tum Istitis *Ptolemai*, tum *Albategnii* congruas componere conati sunt: Eorum autem Nemo suas proprias *Observationes* notatu dignas Nobis tradiderunt.

$\left. \begin{array}{l} \text{Hegira } 827 \\ \text{Æra Chr. } 1449 \end{array} \right\}$ *Oleg Beg*, ætatis suæ Anno 58 interfectus est

In eadem Annorum Centuriâ floruerunt REGIOMONTANUS ejusque Discipulus *Bernardus WALTHERUS* atque Anno 1473 natus est *Nicolaus COPERNICUS*; Quorum singuli Rem Astronomicam multis provehebant Incrementis, ulterius valde quam Astronomorum Antecessorum Cuivis fuit cognitum.

Incipiunt *Regiomontani* Observationes Anno *Æra Chr.* 1457, ac ad Annum 1474 producebantur; atque postquam singulari suâ in *Geometria* & *Mechanicis* Peritiâ, ad *Astronomiam* promovendam plura præstitisset, quam ab istorum seculorum aliquo antea fuit peractum, Fatis concessit Anno 1476.

Bernardus WALTHERUS Norimberga in *Germania* Anno *Æra Chr.* 1475, Observationes Astronomicas facere instituit, Regulis parallacticis *Ptolemaicis* quarum *Radius* quatuor erat *Cubitum* sive sex *Pedum*, quibuscum SOLIS a *Vertice* Distantiam crebrò metiebatur per Annos viginti novem; ab Anno, scilicet, 1475 usque ad *Junii* diem tertium Anni 1504. Itidem *Radio* sive *Baculo* Astronomico (Anglicè *Forestaff*) instructus erat, quo *Planetarum* Distantias a *Stellis Fixis* per Annos tredecim sæpè mensuratas habuit, ab Anno nempe, 1475 ad Annum

Annum 1488. Quæ fuerat tamen *Baculi* sui Longitudo, nos non docet; sed *Schonerus* in describendo tali Instrumento ac de Istius usu Exemplum petens ex *Bernardi Walteri* Observationibus, (pagina 11.) Instrumentum illud describendum, ipsissimum esse *Bernardi Radium* innuere videtur.

Radium, five *Baculum*, 6 Cubitis vel 9 Pedibus longum in 1300 Partes Æquales divisum, Partesque *transversarias* Longitudine Æquales fore 100 *Baculi* Divisionibus vel 200 vel 300, &c. duosque *Acus* politos in singulis Partium transversarum *Finibus* erigendos, unumque *Acum* in *Oculo* five *Centro* ponendum, postulat; ubi tamen parvum in *Lamella* Foramen, ad removendam *Oculi humani Excentricitatem* aptius esset. *Walterus* quidem in observandis hoc Instrumento *Distantiis* assiduus valde videtur, cujus *Observationes* perutiles sunt, quamvis tali *axe: bene* peragi non potuerunt, quali fuere *Observationes* a *Tychone* ac *Hevelio*, sextantibus suis *commodioribus*, peractæ:

Maximus autem Cælorum Lustrator quum esset, ac proinde sui prædicti *Baculi* Vitio, five Defectu, sibi sat benè intellecto, *Armillam Ptolemaicis*, *Armillis* simillimam (ut conjectu facillimum est) ejusdemque Magnitudinis, sibi fabricavit; & postquam hæc uti cæperit *Armillâ*, Mense nempe Septembris, Anno 1488, nullas ampliùs *Distantiarum* *Observationes* ejus *Radio* five *Baculo* factas reperimus; atque *Distantias* ab illo observatas cum Istis *Tychonis*, *Hevelii* *Nostri*sque conferendo, Eas quasi quatuor & quandoque quinque *Minutis* errantes deprehendimus: ejus autem *Mensuras* *Armillis* suis notatas quod attinet, liberrimè satis ac ingenuè fatetur, dicendo, *sed* In Conclusionè *Observationum* suarum ad 12 Decemb. 1903.
video quod præcisio Instrumenti captanda non est citrà 10 Minuta, aut circâ.

Etiamsi verò ejusdem *Observationes*, suis *Radiis* & *Armillis* factæ, ita dubiæ sint ac incertæ; *Istæ*, tamen, *Regulis* suis *Parallacticis* peractæ satis apparent accuratæ: *Solis* Igitur in *Zenith* five Vortice *Distantias Meridionales* ab *Illis* computando, *Norimbergæ* Civitatis Latitudinem, *Refractione* corrigendam, fixam habui 49°, 25' $\frac{1}{2}$ & exinde *Solis Declinationes* atque *Loca* a *Declinationibus* derivata, determinavi; sicut videre est in *Tabella* hic annexâ, unâ cum *Solis* veris *Locis* (Temporibus *issidem*) secundum *Tabulas meas solares* exaratis. Unde ejusdem *Distantias Verticales* (five ejus in *Zenith* *Distantias*) hisce *Regulis*

gulis *parallacticis* observatas, rarissimè duobus *Minutis* a Vero aberrare, *Solisque Loca* ab *Illis* deducta, cum *Tabulis meis* plerumque convenire, meridianâ patet Luce nam ubi *Tabula* aliquandò sunt Tardiores, alibi sunt tantò Velociores in eodem *Ecliptica* Loco; atque hoc nullum in Numeris Errorem arguit, sed Observandi tantum Difficultatem nudis in hocce Instrumento *Conspiciliis* five absque *Vitriolis* nondum usitatis. Quum autem Errores raro 4 excedant *Minuta* & multò minus plerumque; hinc *Numeros* istos *Bernardi Walteri* Observationes, nostris quidem Observationibus (Annos quasi 200) vetustiores, optimè representare concludendum est: Quum etiam ejusdem Observationes cum istis *Albategnii* (800 quasi ab hinc Annos exaratis) fat benè quadrantes, five congruas, suprà deprehendimus; *Eas* non manifestò aberrare posse in *Temporibus* Antiquarum Observationum a *Timocharide*, *Hipparcho* ac *Ptolemaeo* Nobis legatarum five traductarum, certò est dicendum.

Noribergæ Latitudo ab Observationibus per Regulas parallacticarum deducta hab. & Refractionibus adhibitis correctâ, est 49° 25' 50".																		
Annis.	Mens. Die.	a Vert. observat.			Decl. corr. per Refract.			Loc. per Tabul.			Loc. per Observ.			Diff.				
		o	i	ii	o	i	ii	s	o	i	ii	s	o		i	ii		
1477	Martii	11	49	27	48	0	2	58	A	29	55	38	29	52	33	-	3	5
78		12	49	11	10	0	13	40	B	0	40	32	0	34	18	-	6	14
88		19	45	11	40	3	13	20		8	8	44	8	6	33	-	2	11
91		13	48	50	14	0	34	40		1	20	53	1	27	1	+	6	8
1478	Sept.	13	49	17	26	0	7	28		29	37	43	29	41	16	+	3	33
78		12	48	43	35	0	42	15		28	10	8	28	14	0	+	3	52
79		12	48	34	0	0	50	55		27	58	49	27	52	10	-	4	39
88		11	48	31	44	0	53	11		27	46	31	27	46	16	-	0	15
89		11	48	26	10	0	58	45		27	32	28	27	30	55	-	1	33
91		15	49	49	0	0	24	6	A	1	0	30	1	0	19	-	0	11
93		12	49	14	24	0	10	30	B	29	33	39	29	30	41	-	2	58
94		13	49	8	44	0	16	10		29	16	23	29	19	26	+	3	3
95		11	48	15	40	1	9	16		27	4	11	27	1	26	-	2	45
96		13	49	20	50	0	4	4		29	46	48	29	49	48	+	3	0
98		11	48	21	42	1	3	14		27	21	55	27	20	17	-	1	38
1501		12	48	52	16	0	32	38		28	35	20	28	38	5	+	0	45
1475	Julii	26	32	1	8	17	24	13		11	19	37	11	21	17	+	1	40
75		28	32	31	40	16	53	41		13	14	50	13	10	20	-	3	30
75	Aug.	2	33	58	32	15	26	48		18	3	13	18	3	26	+	0	13
75		3	34	15	20	15	9	56		19	0	59	18	57	56	+	3	3
77	Julii	20	30	37	44	18	47	37		6	4	4	6	3	44	-	0	20
76	Aprilis	13	37	5	2	12	20	12		2	28	14	2	35	24	-	2	50
76		18	35	25	54	13	59	22		7	18	54	7	20	54	+	2	0
77	Octob.	1	16	18	0	11	52	37	A	1	9	13	1	5	49	-	3	23

Stellarum quatuor *Fixarum* magis eminentium *Loca*, a *Bernardo Waltero* Armillis suis determinata, Nobis tradit *Ricciolus*: atque hic omnia *Loca* inter ejus Observationes a Me reperta tradam; unde manifestò liquet, quòd de suis *Mensuris* hoc Instrumento factis, usque ad 10 *Minuta*, Certus esse nequivit, ut ipse quoque disertis asseruit verbis.

Astron. Reform. Lib. IV.
Cap. 5. pag. 217.

		Lucida Arietis		0	'	Lat. B	0	'
1488	Sept. 4	_____	8	1	0	Lat. B	10	0
	Octob. 8	_____					10	10
		Aldebaran				Lat. A	5	0
1488	Octob. 8	_____	8	2	40	Lat. A		
1490	Dec. 12	_____		2	35			
1491	Jan. 11	& 17	_____	2	35			
		20	_____	2	23			
	Febr. 14	& 16	_____	2	35			
1503	Dec. 12	sepius & Diligent.	_____	2	45			
		Ham. dext. Orionis						
1503	Dec. 12	_____	II	21	30			
		14	_____	21	40			
1504	Jan. 5	& 10 diligentiss.	_____	21	38			
		19 & 20	_____	II	21	38		
		Syrius						
1489	Mar. 5	& 12	_____	2	30			
		6	_____	7	0			
		13	_____	6	45	Lat. A	39	40
		16	_____	6	45			
		18 & 19	_____	7	0			
		23 & 24	_____	6	45			
		& postea	_____	7	0			
		31	_____	6	55			
1504	Jan. 5	_____		6	33			
		20	_____	6	40			
	Feb. 13	_____	6	38				
		Procyon						
1489	Mar. 31	_____	6	18	33			
	Apr. 1	_____		18	33			
1504	Jan. 5	10 & 20	_____	18	38			
		Cor Leonis						
1489	Mar. 5	6 & 12	_____	23	6			
		13	_____	22	38			
		16	_____	22	26			
		18 19 & 23	_____	22	45			
		31	_____	22	50			
	Apr. 1	_____		22	45			
1504	Feb. 13	_____		22	40			
		20	_____	22	42			
		26	_____	22	40			

Et *Hipparchus* & *Ptolemaus* Stellarum fixarum *Loca*, *Lunæ* *Locis* ista conferendò, determinarunt; *Bernardus Walterus* autem, tum *Solis* tum Planetæ *Veneris* Longitudinum Differentias interdiu, ejusdemque *Planeta* atque *Fixarum* Longitudines

tudines variantes noctū, notando, Fixarum *Loca* decrevit: & hæc quidem *Walteri* Methodus certē fuit Rei peragenda adaptior; quia *Veneris* Parallaxis non est conspicua five spectabilis, ejusdemque Motus *Luna* Motu est tardior valde: utraque verò methodus est in Errores a *Refractionibus* oriundos proclivis; quarum Refractionum Effectus primò exploravit *Walterus* suis Observationibus; ast illarum Mensuris ad Nobilis *Tychonis* Tempora usque incompetis, *Walterus* illas admittere, five illis spatium relinquere nequivit in suis supputationibus, neque per illas Refractiones castigare potuit suas Observationes. Atque hinc magnas Differentias inter earundem *Fixarum* *Loca* ab eo observata, Originem quodammodò duxisse, non videtur improbabile: & hæc quidem Differentiæ ampliùs adaugeri potuere a Difficultate metiendi Longitudinis Differentias inter *Solem*, *Planetam*, & *Stellas* tantillo Instrumento, *Armilla* nempe, nudisque Conspiciis in illam fixis, quibuscum *Collimatio* dubia valde est atque incerta.

In Tractatu suo, de
Motu Orbis Spæra,
edito Norimbergæ 1522.
Prop. I.

Joannes WERNERUS *Reguli*, *Spica* ☿ & *Lancis Australis* ☿ Distantias in *Zenith* Meridionales, *Regulis* Parallaëticis Anno 1514 observatas, nobis exhibet; & exinde illarum

Sellarum Declinationes colligit, uti hic a me annexas, viz.

Regulus 35°, 16' *Declin.* 14°, 07' ☿ B. *Norimbergæ* Latitudo *Spica Virg.* 57, 53 *Declin.* 08, 29 ☿ A. tudinem plane de-
Lancis Aust. 63, 02 *Declin.* 13, 38 A. terminat 49°, 23' ☿

Copernicus Anno 1525 *Altitudinem Spica* ☿ Meridionalem apud *Fruemberg* in *Borussia* fore 27° propemodum observavit; ideoque ejusdem *Declinatio* tunc Temporis fuit 8°, 40', versus Meridiem.

Joannes STADIUS Anno 1559 *Altitudinem Spica* ☿ Meridionalem *Bruxellæ* captavit fore 29°, 52'. Et exinde ejusdem *Declinationem* fore 8°, 48' versus Meridiem determinavit: *Bruxella* enim *Latitudinem* fuisse 51°, 20' est arbitratus.

Wernerus, *Copernicus* & *Stadius*, *Spica* ☿ *Latitudinem* ad Amussim 2°, versus Meridiem fore concedendo (sicut a *Ptolemaeo* antea supputabatur) *Longitudinem* istius *Stellæ* talem *Declinationem* habituræ computarunt per 2° *Latitudinis* Meridionalis; & quousque ista *Stella* a *Ptolemai* Temporibus fuerit mota, illinc adjudicarunt.

Ptolemai

Ptolemai Catalogum Stellarum *Loca* edere uno circiter Gradu Minora quam revera sunt, dudum præmonstravi: alios autem Errores repertos in hac Methodo determinandi *Loca Spicæ* (aut cujusvis aliûs Stellæ eidem Negotio adhibitæ) videre licet in *RICCIOLI Astronomia Reformata* Lib. IV. Capitibus 3, 4, 5. ubi certiores facti sumus *Cardinalem Cusamis*, ad Annum usque 1440, *Fixarum* Catalogum exarasse, in quo 21 tantum *Ptolemai* Longitudinibus addidit, ejusque Latitudines transcripsit. *Abraham Zaguth* etiam Anno 1474 *Spicam* observavit in $\approx 17^{\circ}$, $10'$, atque verisimile videtur Ambos eadem methodo usos fuisse quam *Wernerus* & *Copernicus* ab Illis mutuati sunt ac postea usurparunt: Latitudines enim hac in Methodo sunt eadem ac *Ptolemai* Latitudines in *Copernici* Catalogo exscriptæ; ejusque Longitudines ab Istis *Ptolemai* discrepant quodam Arcu Graduum 6° , $40'$, fixo, five invariabili, quo a *Ptolemai* Longitudinibus deducto, *Copernici* Longitudines residuæ sunt & Istæ *Clavii* quoque, qui suas a *Copernico* est mutuatus.

Non diu extabant *Copernici* Opera quin a veris Veritatis Amatoribus, five Viris eruditis Assidue, & æneas delectatis fovebantur, & quàm primùm *Erasmus REINHOLDUS* Tabulas motuum Cœlestium Hypothesi *Copernicanæ* (quæ Terræ motum suppositum habuit) congruas in Lucem ediderit; Bella, horrida Bella, inter harum duarum Hypothesium Vindices exorta sunt: atque *Alphonsinas* Tabulas a Cœlorum Veritate enormiter aberrasse, *Reinholdi* vero Tabulas *Prutenicas* multo minùs plerumquæ aberrare, citò erat rescitum.

Opus 7. Annonum ut in Præfatione sua Nobis narrat.

Sed *Omnipotens* PROVIDENTIA servos suos Ratione præditos Veritatum utilium non semper ignaros est passa; & ut toti Mundo Divina Sapiëntia planè innotesceret, atque Hominum Stultitia detecta foret in Cœlorum Motibus excogitandis & representandis aliter atque ab Ipso Creatore disponebantur: sapientissimus, inquam, totius Mundi Architectus, magno *Copernico* ad verum Cœlorum Systema restaurandum hætenùs excitato; paululùm intra 4 Annos post *Copernici* Mortem (quæ contigit Anno 1543) TYCHONEM BRAHE Danum, Genere ac Virtute nobilem, singulare naturæ Beneficium & Literaturæ Ornamentum, Orbi donavit, natum *Knudstøp* Anno *Æræ Christianæ* 1546, *Astronomia* restaurandæ aptissimum; qui quum in Adolescentiæ

Adoleſcentiæ ſuæ Primordiis ſtudio Aſtronomico ſedulam navaffet Operam, Tabularum *Alphonſinarum* Hypotheſi *Ptolemaica* innixarum Errores craſſos, Tabularumque *Copernicanarum* & *Prutenicarum*, Cœlorum Veritati propiorem Congruentiam, citò inveſtigavit; eodemque Tempore Catalogum *Fixarum Ptolemaicum* maximis ſcatuiſſe Erroribus exploravit, atque pro certo ſtatuit, Motus Cœleſtes nunquàm exatè repreſentandos ſive deſcribendos fore, donec melior ſive exactior Catalogus conficeretur. Ideoque ampla Inſtrumenta fabricare, in Animum duxit, ad obſervandas SOLIS, Stellarum & Planetarum Altitudines ac Earum a ſe invicem Diſtantias, Eo Fine ut optimarum Cœleſtium Obſervationum Notitiam haud mediocrem ſibi met ipſi benè acquireret; Earumque in ſecula propagandarum Rationem & Modum Poſteritati legaret, quò ſic veram Cœlorum *Theoriam* detectam haberent, *Numeros* invenirent, *Tabulas* ad Cœlorum Motus ritè repreſentandos conficerent, omniaque Emolumenta neceſſariò exindè germinantia uberrimè caperent. O profundas Divitiás túm Sapientiá túm Cognitiónis Dei! quàm inſcrutabilia ſunt ejus Judicia & ejus Viá impervestigabiles! omnes itaque Viri eruditi corám Sapientiá Omnipotentē ſeſe in Profundum humiliant, omnem túm ſapientiæ túm Cognitiónis humanæ Gloriam Ei grato tribuant Animo, & cum *Pſalte Regio* canant

Quæque per vaſtos ubicunque Fines
Imperi pollens Opifex creavit
Plaudete, Auſtori Domino Deoque
Pangete Laudes.

Eximius *Tycho Brahe* in *Dania* Ordine *Patricio* oriundus, cui, magna fuit Rei familiaris Copia, & ab Amicis in Regia ſummis *Danorum Regi* FRIDERICO II. magnoperè commendatus, qui præmio 4000 *Thalerorum* Eum annuatim donavit, ut *Studia* ſua felicitiús promoveret; *Aſtrorum verà Scientiá* & *Obſervationibus* longo Tempore & magno ſumptu factis, Omnium concordibus ſuffragiis PRINCIPIS ASTRONOMORUM nomen promeritus eſt: & quum *CHERSONEO-GIMBRICA* reliſſa, in *GERMANIAM* ſe recepiſſet, in *Aula* *RUDOLPHI CÆSARIS* aliquandiu floruit; atque cum illuſtri Principe *GULIELMO HESſo* (qui in eadē excellēbat *Scientiā*) arctā Studiorum Neceſſitudine conjunctus, tandem *Fatis* conceſſit *Praga* Anno 1601, 9 Kal. Novemb. Stilo novo,
quum

quum vita Annos 54, Menses 9, Dies 19. (prob Dolor!) tantum exegisset: sicut nobis narrat Thuanus.

Apud Augustam Vindelicorum dum commorasset Tycho, Anno 1572, in Consulibus Pauli Hamzelii usum, machinatus est amplam & volubilem Quadrantem, cujus Radius erat 21 Pedum, ejusque Fulcrum, vel Machinam, sive Costas ex Quercu bene præparato fabricavit: sed ejus Artum æræ obductum habuit, quod Divisionibus & Sectionibus magis accuratis recipiendis aptior esset: atque hocce Instrumento, Anno 1572 exeunte, ac Anno 1573 ineunte, minimam Novæ Stellæ in Cassiopeia meridionalem Altitudinem observavit, tunc fuisse ———— $20^{\circ}, 9', 3''$ & maximam supra Polum Altitudinem ———— $76^{\circ}, 34', 30''$

Quæ quidem per Refractiones castigata, veram dat Novæ istius Stella a Polo Distantiam, nempe 28, 13 :

Atque Latitudinem villæ ræ Gegying prope Augustam Vindelicorum ———— $48^{\circ}, 21'$

quam Tycho supputat fore $48^{\circ}, 22'$, Refractionibus nempe neglectis.

Eodem Quadrante Hamzelius maximam Stellæ Polaris Altitudinem supputavit fore $51^{\circ}, 22', 15''$. Castigat. $51^{\circ}, 21', 37''$.

Minimam verò ejusd. Altitudin. $45^{\circ}, 21', 45''$ ———— $45^{\circ}, 20', 58''$

Et Differentiam ———— $6^{\circ}, 00', 39''$

Stellæ Polaris a Polo Distantiam ———— $3^{\circ}, 00', 19''$

Minimam Altitudinem observatam ———— $45^{\circ}, 20', 58''$

Latitudinem villæ ræ Gegying ———— $48^{\circ}, 21', 17''$

Atque hujus Observationis ab Hamzelio peractæ, nempe, de Stellæ Polaris a Polo Distantiâ, mentionem feci; quia omnium Observationum, amplis & accuratis Instrumentis confectarum, Antiquissima Nobis extat, illasque a Nobili Dano postea confectas plenè confirmat.

Illustrissimus & Serenissimus Princeps GULIELMUS HESSIA LANDGRAVIUS Solis Altitudines Meridionales sæpissimè, duobus diversis Quadrantibus, observandas curavit ab Anno 1561 ad Annum usque 1582, quales autem erant Eorum Radii, non docemur, quippè ab Eo tantum discriminati sub Nomine Quadrantis MAJORIS & MINORIS; & absque ullâ Refractionum Deductione, maximas SOLIS Altitudines Meridionales, Solstitii Æstivi Tempore, apud Cassellam determinavit — $62^{\circ}, 12', 0''$.

Minimasque, adultâ Hyeme ———— $15^{\circ}, 12', 0''$

Exinde Eclipticâ Obliquitatem collegit ———— $23^{\circ}, 30', 0''$

Et Cassella Latitudinem ———— $51^{\circ}, 18', 0''$

Sed quum *Fixarum & Planetarum* observationes *Hessiana* ante Annum 1590 non sint inchoatæ, *Tychonis* autem Observationes Anno 1582 institutæ sint, ut patet in *Historia Cœlesti*; de *Hessianis* ulterius differere non pergam, donec de *Istis Tychonis* ampliorem reddiderim Rationem.

In suis Astronomiæ Inflau-
ratæ Mechanicis.

TYCHO suas Observationes, inter *Ætatis* suæ Annum 15 & 21 confectas, tanquam *pueriles ac dubias*, semetipsum judicasse, nobis refert; Istasque inter Annum *Ætatis* suæ 21 & 28, ut *excusatè concinnas*; Illas verò Observationes, amplioribus suis Instrumentis, *Uraniburgi*, spatio Annorum 21 a se peractas, & ad Annum usque *Ætatis* suæ 50 continuas, tanquam *Accuratas, firmas & indubitabiles*, se esse arbitratum tradit. Quum autem natus fuerat *Tycho* 13^{to} die Decembris horà 22^a cum Minutis 47 P. M. Anno *Æra Christiana* Juliano ————— 1546 cui Anno si addantur *Quinquaginta* *Ætatis* suæ Anni Absoluti 50 deventum est ad Annum *Æra Christiana* exeuntem — 1596.

Et circa idem Tempus ob quorundam in Aula *Regis Christiani IV. Magnatum* Avaritiam & Versutiam, ex sua *Uraniburgo*, & etiam ex totâ *DANIA*, decedere coactus fuit *clarissimus Tycho*! Jam verò, si Observationes suas accuratas, apud *Uraniburgum* continuas habuerit per Annos 21, tunc Eas fuisse inchoatas oportet Anno 1575 exeunte vel 1576 ineunte, quandò, nempe 8^o Augusti die, Domum suam, *Observatorium* dictam, ædificare instituit.

Exactissimam autem Ejusdem *Librorum* Enarrationem reperiò, in *Erasmi BARTHOLINI* Libro vocato, *Specimen Recognitionis Observationum Astronomicarum TYCHONIS BRAHEI, Editum Hafniæ* in 4^o, ac *FRIDERICO III. Dania Regi dictatum*, 20^{to} die *Januarii* Anno 1668: in quo nos facit certiores (*pagina 7.*) quòd in Editione *Augustanâ*, omnes *Tychonis* Observationes desiderantur ab Anno 1563, ad Annum 1582; omnesque peractæ Anno 1593; quibus addere possum *Cometarum* ejus Tempore eminentium Observationes ab Illo factas. Nobis porrò narrat *Bartholinus*, quod a primis harum Observationum *Autographis*, sive primis Earum notis & Commentariis, ab ipso *Tychone* scriptis, transcripta fuerunt hac de Re *Volumina* quæ extant in *IMPERATORIS ROMANI Bibliotheca* apud *Viennam* & (*pag. 9.*) quod eorum voluminum quædam *Tychonis* Manus propria scripta sint, præsertim *primorum Annorum* Ista; quòd cætera

cætera verò Longomontani, Witchiæ, ejusque Domesticorum manibus transcripta sint; & quòd septem sint ibidem Volumina in Folio, unum in 4^{to}, unumque in 8^{vo}, quibus unum in 4^{to}, ejusdem de Cometis Observationes complectens, addendo; decem omninò erunt Volumina. Autographa prædicta, sive primi isti Commentarii, Omnes Tychoonis Observationes ab Anno 1563 ad Annum 1601 complectuntur & quæ Keplerus vocat Tychoonis Protocolla sive primas Membras & Chæ: Observationum, in quibus nempe raptim describebantur Observationes, eodemque Ordine quo erant peractæ: Atque omnia hæc Tychoonis Autographa vel in Regis Danici Possessu, vel in Erasmi Bartholini Hæredum Manibus hodiè conservantur. Eruditissimus Roemerus eandem mihi Narrationem impertivit quandò apud me hospitabatur.

Veruntamen ante Annum 1582 non incipit TYCHONIS Historia Cœlestis; ideoque Observationes quinque Annorum ad Minimum, hoc in Libro desiderantur: quia forsitan Quinque Istitis Annis præterlabentibus in ædificando Observatorio & Instrumentis Astronomicis fabricandis plurimum fuit occupatus; vel quia ejus Observationes nec totidem nec tam exquisitæ factæ fuere ante Annum 1582 quàm fuerunt Istitæ postea peractæ: quamquam ejus observata Loca Cometæ, Anni 1577 intervenientis, Eum quasdam Observationes etiam Tunc Temporis fecisse ostendunt: atque præfatus Dominus Roemerus, istorum Annorum Observationes in Dania extare, mihi narravit, Earumque Exemplaria & Istarum Anni 1593 (quæ defunt in Lucii Barretti Editione Augusta Vind. 1666) se in Galliam deportasse Anno 1670, quandò in Adjutorium Domini Picart, in Observatorio apud Parisienses, ex Dania profectus est.

Instrumenta a Nobili TYCHONE fabricata & Rei Astronomicæ apud Uraniburgum adhibita (quorum Rationem reddit cum Eorum Figuris in Libro suo vocato Astronomia Instaurata Mechanica, ad Imperatorem RUDOLPHUM secundum dicato ac Noribergæ excusò, A.D. 1602.) sunt, viz.

I. QUADRANS MINOR ORICHALCICUS INAURATUS, é solidà constans Luminà Orichalcicâ crassiusculâ, habens à Centro ad Circumferentiam unum Cubitum, sive pedes octodecim, omnique sui Parte Auri hydrargyri & Ignis beneficio inauratus, ut pulchrior & mundior maneat, non obnoxius iis, quæ Orichalcum aliàs, nisi sæpè mundetur, successivè contrahit, Inquinamentis. Limbus

bus ejus exterior subdivisus est (vulgari saltem Ratione) in 90 partes æquales; & quælibet harum rursus in 12; ita ut hæc subdivisio singula *Quina* ostendat *Minuta*. Intra hanc est alia quædam Distributio, quam *Petrus Nonnius Hispanus*, in Erudito suo Libello *de Crepusculis* tradidit; existimans Eam a *Ptolemao* olim fuisse usurpatam: quod tamen vix Fidem meretur. Intra *extremum* Quadrantem alii ducuntur *Minores* numero 44 successivè sese comitantes; quorum *Extimus* in 89 partes est dividendus, *sequens* in 88, *Tertius* in 87, & sic deinceps, donec ad *ultimum* & *intimum* perventum fuerit, qui 46 habebit portiones. Ejus *Regula* habet Pinnacidia vulgari modo parata cum Foraminibus: Ejus *Perpendicularum* a Posteriori parte appenditur: Ejus *Latus inferius* Horizontis *Æquilibrium*, *Alterum* verò *Latus* verticem Caputum respicit; totumque Quadrantis *Planum* Plano Circuli alicujus Verticalis congruat, & insitit *Pedestali* ferreo & *Fulcro* mobili cum *Cochleis* quibusdam, ut attolli possit vel deprimi, sursum vel deorsum trudi, prout opus fuerit, firmâ tamen manente totâ inferiori *Pedestalis* Parte.

II. QUADRANS *Mediocris* ORICHALCICUS AZIMUTHALIS, ex solidâ constans laminâ, habens a *Centro* ad *Circumferentiam* paulò plus *sesqui altero* Cubito, ejusque Crassities est fermè *Semis* Latitudinis digiti. Continet verò intra *Circumferentiam* non solum *Divisionem* nobis usitatam per *Lineas* & *Puncta* transversalia, sed & *Nonnianam illam* (supra memoratam) ratione tamèn magis accommodâ ampliatam habetque *Tabulam* in alterâ *Quadrantis* Superficie excisam, quæ *Divisiones* illustrat, aptasque usibus reddit, sine ulteriore *Calculo*. Ejus *Regula* est tota chalybea, at simul inaurata, cum duobus *Dioptriciis* orichalcicis, & Inferiori est *Oculus*. Observatoris applicandus, quæ *Rimulas* priori *Pinnacidio* parallelas exhibet, quò sidera undiquaque circa primum *Pinnacidium* eò collimatiùs & centralitèr, absque omni *Hallucinatione*, collineare liceat: qui *Modus* nobis in Omnibus fermè *Instrumentis* usitatus est. Estque ipsa *Regula* Quadrantis *Radio* longior; ut eò exactior & commodior fiat *Observatio*, & ut inter collimandum, *Digitis* tolli deprimique facillè possit, donec *Astri* observandi exquisita pateat *Altitudo*, unâque *Azimuthum*. *FULCRA* verò Quadrantis sic sese habent; primum volvitur *Quadrans* cuidam *Tereti* oblongo robusto, *Ferro* per *Cochleam* affixus:

affixus: *Canalis* inferiùs gestat *aliam* Regulam, quæ unà cum *Plano* Quadrantis in quamlibet Cœli Faciem, suprà *Horizontem* Azimuthalem Chalybeum, commodè convolvitur; simulque, sub Indice, *Azimutha* pandit Sideris observati, unà euni *Altitudine*, eodem Negotio; ita ut *Altitudines* superiùs in Quadrante veniant numerandæ, sicut *Azimutha* sunt numeranda in dicto Circulo *Azimuthali*. *Cochleæ* quatuor efficiunt, ut per Eas *Horizon* ille chalibeus, in veri Horizontis *Planum* exactè disponi possit; adeoque ipse Quadrans superiùs existens, tam secundùm Horizontis *Æquilibrium*, quàm versùs *Zenith*, utroque suo Latere, ritè dirigi possit. Est & alia *Cochleæ* que ipsam in Minutulis quibusvè *Differentiis* (sicubi opus fuerit) corrigat; ita ut amulùm *Planum* cujusvis Circuli *verticalis*, in quocunque suo situ, representet. Porro, hæ *Cochleæ chalibeæ*, totum Instrumentum portantes, *quatuor Columnis* insistant *marmoreis*, intrà quas continetur *Scammum*, five *Pedestale*, in quod, peractâ Observatione, adscenditur & statur; ut *Altitudo* in Quadrantis Circumferentiâ commodè observari & accuratè numerari queat. Atque præcipuus hujus *Quadrantis* usus extitit in *Tychonis* Observationibus de *Cometâ* Anni 1577, ut in *Progymnasmatum suorum Astronomicorum* Tomo secundo videre est.

III. *QUADRANS alius ORICHALCICUS & AZIMUTHALIS*, habens sub se *Horizontem Azimutha* continentem, & è solido Orichalco fufum. A *Centro* ad Circumferentiam, Longitudo est unius *Cubiti* cum semisse. Idem est *Limbus* ac in priori Quadrante, *duorum* nempe digitorum Latitudinem continens; sed vice *Divisionis Nonniana*, QUADRATUM in Areâ Quadrantis conspicitur, unàque huic *Cognitiones* adaptantur, decussatim incidentes, *Fulcri* saltem loco & majoris Firmitatis Causâ: altera verò Adaptatio circâ hoc Quadratum, Formam Literæ Y representans, ipsum quadrantis *Planum* sistat *Horizonti*, cui involvitur, ad Angulum rectum, quomodocunque circumgyretur; & hæc adaptata FORMA *Cochleolâ* quâdam *Horizonti* figitur; & immota permanens, Gradus *Azimuthales* commodè demonstrat. Quodd verò *Quadrans* hic non sit totâ suâ Scupficie solidus, sed Discrimina ea habeat quadrilatera, id præbet utilitatis; quod minoris sit Ponderis, faciliùs tractari possit & ab uno in alium Locum transferri queat. *Regula* suo *Plano* latiori, & Quadrantis etiam *Plano* ubique adjacet, cum *Dioptris*

& *Pinnacidiis* & duabus *Ansis*, ut *Azimuthorum* Perſcrutatio fiat accurata. *Horizon* autem *Azimuthalis* infrà Quadrantem, ipſum ſuſtentans, & habens in ſe, decuſſatim ad Angulos Rectos, Fulcimina; habet inſuper, juxta earundem *Contignationum* Extremitates, quatuor *Cochleas*, quibus totus *Horizon*, & ipſe *Quadrans* illi inſiſtens, ita dirigantur, ut hic *Planum* Circuli *verticalis* cujuſvis ad Amuſſum imitetur. Cæterùm, inſiſtit totum Inſtrumentum *Lapido* quadrato, qui *Columna* lapideæ firmiter inſtititur. Atque hic a *Tychone* vocatur *Quadrans portatilis*, quod omnia hùc pertinentia facilè diſjungantur: additque quod hiſce duobus Quadrantibus, in exactiſſimis Obſervationibus, non ſit nimium fidendum, ſed ad majora Inſtrumenta nos conferamus.

IV. *SEXTANS ASTRONOMICUS*, prout *Altitudinibus* inſervit. Hoc Inſtrumentum, uſibus apprimè accommodum, (inquit *Tycho*) Ego primus, ante *Annos* plus minùs 20, excogitavi; adeoque hoc Nomen ipſi indidi, quod *Sextam* Circuli *partem* in Circumferentia complectatur. *Tria* ejuſcemodi Organa conſtruxit *Tycho*, eodem Modo ſe habentia, quoad exteriores *Limboſ* & *Pinnacidia*, non verò quoad *Contignationes* intrinſecas. Hic autem *Sextans* paucioribus erat reſertus *Contignationibus*; ut, ſcilicet, ejus partes per *Cochleas* diſjungi & coaptari poſſet, & ita foret Inſtrumentum *portatile*; atque non tantùm *SOLIS Siderumque* Intercapedinibus, ſed & earundem *Altitudinibus* rimandis, appoſitè inſerviret, & ſic *POLI Altitudines* in variis Terris explorarentur. Eſt autem *Sextans* totùs undiquaque *Orichalcicis* Laminis imbutus, idque adeo concinnè, ut ex *Solido* diceret *Orichalco* fuſum, nullà apparente Combinationis *Rimulà*: habetque a *Centro* ad Circumferentiam 4 *Cubitos* vel 6 *Pedes*. Juxta Centrum eſt *Cylindrus* cum *Regula* tendente ad Circumferentiam, cujuſ Beneficio Obſervationes fiunt, intermediente *Pinnacidio*, apud extremitatem *Regulæ*, cum duobus Rimulis, tantùm ab invicem diſtantes quantum *Cylindri* Diameter exigit; ut hinc inde paralleliter fiat Obſervatio, Siduſque centraliter citrà Hallucinationem denotetur. Circumferentia per puncta *tranſverſalia* dividitur; cum hic Modus ſit omnium aptiſſimus & in conficiendo faciliſſimus, nullique Incerti tudini obnoxius; quem alii poſtea in *Germania* (ait *Tycho*) ſibi attribuerunt, præſertim *Wittichius* pro ſuo venditavit. *Cochleis* porrò & componitur & diſjungitur hoc

hoc Instrumentum; atque ejusdem Fabricatio & Ufus descripta videantur in *Tychonis* Astr. Instaur. Mechan.

V. QUADRANS MURALIS, five TYCHONICUS, ab ipse *Tychone* (a quo primum fabricatus & constructus fuit) & a *Muro*, cui infigebatur, dictus; e solido Orichalco fusus & apprimè levigatus, quinque Digitorum in *Latitudine*, duorum *Crassitudine*, & in sua *Circumferentia* tantæ est Capacitatis, quantam *Radius*, seu Circuli semidiameter, penè *quinque* Cubitorum five pedum 7 $\frac{1}{2}$ postulat. Itaque *Gradus* habet admodum Amplos, ut singula in his *Minuta* adhuc in *sex* Portiunculas subdividantur, atque *dena* quælibet *Scrupula Secunda* discriminatim exhibet; adeo ut horum *Semis*, *quina* videlicet *Secunda*, in his non difficulter discernantur: Eaque omnia per *puncta* quædam *transversalia* (modo *Tychoni* usitato) subtilissimè signata.

Muro cuidam, *Meridiem* exactissimè suo *Plano* respicienti, affigitur, idque firmissimis *Cochleis*, ut nullà vi aut Robore a suo debito situ dimoveatur, & ut *Quadranti* cœlestis *Meridiani* ab *Horizonte* in *Zenith* ducto (ab oppositâ tamen Parte) apprimè sit *hic Quadrans* analogus. Est & alter *Murus* Priori *orthogonalis*, Orientem & Occasum ad amussim respiciens, (ubi superius est *Centrum Quadrantis*) qui habet in parte superiori *Cylindrum* quendam Orichalcicum inauratum in *Foramine* quodam *Quadrato*, quod exterius aperiri & claudi convenienti Janiculâ potest; ut circa *Cylindrum* fiat hinc inde *Collimatio*, quum fuerit Sudum; idque per duo *Pinnacidia Quadrantis Radio* ita innixa, ut quorumque horum lubuerit, Eo uti liceat, prout *Altitudini* mensurandæ magis fuerit oportuum; & quodlibet eorum *Pinnacidiorum Quadratum in Plano*, ad *Magnitudinem* unius *Palma*, fabricatum est: cui etiam *Pinnacidio Cylindrus* antedictus in suo *Diametro* omninò correspondet; ita ut per *Rimulas* parallelas, ipsis *Pinnacidiiis* applicatas, fiat in omnibus *quatuor Locis Collimatio*, si & *Altitudo* & *Transitus* per *Meridianum* simul sint capiendæ: aliàs, si sola desideratur *Altitudo* per superiorem & inferiorem *Rimulam*, similesque *Cylindri* partes, OBSERVATOR, ad *Pinnacidium* stans, negotium absolvit, & numeratam *Altitudinem* alteri STUDIOSO, libro *Observationum* inscribendam, indicat; qui Alter ad partem *Quadrantis* inferiorem assidet *Mensæ* cum *Lucerna*. Ut verò *Observationis Tempus* atque ipsissimum

Momentum

Momentum *Transitus* per *Meridianum* unâ constat, *Tertius* *STUDIOSUS Horologiis* attendit, quando *Observator* signum dat; quod etiam *Temporis Momentum*, a *Studio* *Mensæ* assidenti, Libro inscribitur. *Horologia* duo ad Minimum, non solum singula *Horarum Minuta*, sed & *Scrupula* earundem *Secunda*, indicare debent, quâ fieri potest *Precisione*, atque *Revolutionis cœlestis Aequalitatem* æmulentur. Quatuor *Tychoni* fuere *Horologia* in promptu, quorum unum & *maximum* tribus rem omnem expedit *Rotis*; quarum *Rotarum Major* è solido & puro *Orichalco* fusa, 1200 habuit *Denticulos*, & cujus *Diameter* fuit *duorum* *Cubitorum*.

Quæcunque intra *Quadrantis Circumferentiam* cernuntur *Pictura*, *Ornatûs* solummodo gratiâ sunt additæ & ne *Spacium* interceptum otiose vacaret, viz. 1. *Tychonis* vera *Effigies* ad *Mensam* Assidens in longa talari veste, ut vix similior dari possit. 2. *Globus* *Orichalcicus* inauratus. 3. Binæ *Effigies* appendent, una *Regis Danici* *FRIDERICI* II. altera ejus *Conjugis Regina* *SOPHIÆ*. 4. *Bibliotheca* *Astronomiæ* pars representatur. 5. Aliqua *Tychonis* *Instrumenta* depicta. 6. *Museum* exhibetur cum quatuor *Mensibus* *Studioforum*; semper enim 10 vel 12 *Studiosos* sustentavit, præter *Pueros* & *Juniores* ejuscemodi *Discipulos*. 7. Inter has *Menses*, post *Columnnam*, *Globus* ille *Maximus* *Orichalcicus*, *Sex* *Pedum* in *Diametro*, quem postea suo *Loco* exhibebimus. Et infra depictum fuit *Laboratorium* *TYCHONIS chymicum*, quod totum fuit *subterraneum* & *crypticum*; ubi erant *decem* varii *Generis* variæque *Formæ* *Fornaces Pyronomicæ*: huic enim *Studio*, ab ineunte etiam *Ætate*, fuit perquam addictus. 9. Ad *Tychonis* *Pedes* recumbit *Canis* venaticus, non tam *Nobilitatis* quam *Sagacitatis* & *Fidelitatis* *Hieroglyphicum*. 10. Tandem superius est *Inscriptio*, viz.

EFFIGIES TYCHONIS BRAHE, O. F.

ÆDIFICII ET INSTRUMENTORUM

ASTRONOMICORUM STRUCTORIS

Anno Domini 1587. Ætatis suæ 40.

VI. *QUADRANS* *VOLUBILIS AZIMUTHALIS*, non solum ad *Altitudines* subtiliter scrutandas aptus, sed etiam ad *Azimutba* exactè pandenda, & a *Centro* ad *Circumferentiam* quatuor *Cubitos*, sive *sex pedes*, complectens; cujus *Circumferentia* adeo subtiliter per puncta transversalia est subdivisa, ut *quartam*

unius *Minuti* partem Collimatori acuto exhibeat, Oculo ad *Pinnacidium* applicato, & motâ *Regulâ*, donec *Sidus* observandum ad *Latera Cylindri* juxta Centrum, hinc inde æqualiter splendeat; tunc enim *Regula* Circumferentiæ Divisiones transeundo, quæsitam exhibet *Altitudinem*. Circumferentia *Azimuthalis* superiùs extenditur, ejusque *Index* Azimuthorum *Momenta* patefacit. *Contignationes* intra Quadrantis *Aream* multifariæ, illum firmiter tam in suo *Plano* quàm in reliquâ Conformatione debitâ, retinent atque conservant; omnesque Quadrantis *partes*, partim *Chalybeis*, partim *Orichalcicis* incrustationibus (pro ut opus erat) nunitæ. Affixus est etiam firmiter *Columna* forti ferreæ quadrilateræ, cum qua etiam facillimè circumvolvitur in quancunque *Cæli* partem. Nam dicta *Columna* ferrea, superiùs teres facta, in *Foramine* quodam *Ferramenti* densi, quod decussatim, *Muro* rotundo, *Turriculam* sive *Cryptam* (in qua Instrumentum conservabatur) efficiente, firmiter adaptatum est. Inferiùs autem *Columna* in *rotundum* Acumen ex Chalybe definit, ac in *parvo* Foramine pariter acuminato revolvitur in *Laminula* quadam chalybea, & *Saxo rotundo* firmiter infistit *Columna*; *Laminula* verò hæc *quatuor* extra-positis *Cochleis*, quaquaversum opus fuerit, trudi potest, donec *Quadrantis* utraque *Perpendiculara* tam *Planum* Quadrantis quam *Dorsum* ejus (quomodocunque circumgyratur) ita dirigant, ut exactè *Calculus* quemvis *verticalem* representare deprehendatur.

Murus autem is *rotundus*, Circuli Peripheriam exactè exhibens (cujus *Diameter* est 6 circiter *Cubitorum*, ut sufficiens *Spatium* sit inter Circumferentiam *Quadrantis* & Concavitatem *Crypta*, quò *Observator* commodè circumire queat) suprà habet quendam *Circulum Mechanicum*, Laminis Orichalcicis vestitum; in quo omnia totius *Horizontis* (cui suo *Æquilibrio* correspondent) *Azimutha* in *Minutias* subdivisa præbet, unâque immotus persistit. Atque hoc *Organum* hanc habet Prærogativam præ aliis (quæ per *Altitudines* & *Azimutha* expediuntur) quod citra Laborem omnia per ipsum exactissimè ac tutò, adeoque intra *quartam* *Minuti partem*, consequi liceat; quod Prioribus, cum ob Parvitatem, tum ob Structuram non adeo concinnam & usui facilem, denegatum est: sicut videre est per ejus Fabricam & per tractandi & observandi Rationem in *Astron. Instaur. Mechan.*

VII. QUADRANS MAGNUS CHALYBEUS, in QUADRATO etiam *chalibeo* comprehensus, unâque AZIMUTHALIS, eadem præstat atque Antecedens, imò adhuc subtiliora, quum majus & amplius sit Organum: habet enim a Centro ad Circumferentiam ferme 5 *Cubitos*, præter *Quadratum* etiam e solido constans Chalybe, quod illum ambit. Ipse verò Quadrans *Laminis* Orichalcicis affabrè inductus est, ut *Divisiones* & *Subdivisiones* subtiles rectius sustineat: non autem *Quadratum* est *Orichalco* indutum, eo quod rarior est ejus usus; præsertim, enim, Fulciminis & commodioris Convolutionis Gratiâ tantum, illum comprehendit. Attamen, & Hoc in ipso *Chalybe* quam subtilissimè divisum est, ita ut *Quodlibet* ejus laterum (quæ Circumferentiam Quadrantis ambiunt & *Horizontem* & *Zenith* respiciunt) Canonis Sinuum ultimum numerum 6 *Ziphrarum* comprehendat; & *Regula* a Centro per totum *Planum* ducta, tam in *Quadrante* quam *Quadrato*, Altitudinem petitam inter observandum demonstrat; *isthic* quidem per *Graduum* Æqualitatem, *hic* verò secundum *Sinuum* & *Triangulorum* Rationem Geometricam; & nihilominus, Res utrobique in unum & idem redit. Habet etiam *Pinnacidium* cum *Dioptris*, & *Cylindrum* juxta Centrum, eadem Ratione prout in Prioribus; sua quoque sustentacula & *Contignationes*, pauciora tamen; quum Totum sit metallicum. Quin & hic *Quadrans* cum suo quadrato *Columna* ferrea admodum robustæ affigitur, cum qua etiam convolvitur. Gyratur enim *Columna* illa superius in rotundo *Foramine* quod in medio est *Ferramentorum* transversum in *Muro Cryptæ* firmiter dispositorum; atque inferius in ferreâ *Lamina*, eodem modo quo in Antecedente dictum, ut *isthic* per *Cochleas* quadrifariam dispositas, totum Instrumentum ritè ad usum adaptari queat, unâque in sua Convolutione firmiter contineri, né ultra *Planum* requisitum divellatur: atque *Lamina* cum suis *Cochleis* *Columnæ* rotundæ lapideæ infigitur, quæ totam sustinet Machinam. Habet etiam suum *Horizontem Azimuthalem* Orichalco inductum & in Medio quasi *Muri Cryptici* positum, quò *Observator* stans in superiori Gradu, *Azimutha* per *Indices* utrinque numerare queat.

VIII. SEMICIRCULUS MAGNUS AZIMUTHALIS, *Altitudinibus* unâ cum *Azimuthis* ad Amussim capiendis idoneus; cujus *Diameter* est 6 *Cubitorum* vel 9 *Pedum*. *Centrum* Divisionum constituitur in *Angulo* sive apud *Diametri* Extremitatem;

èò quod sic singuli Gradus, in ambitu Semicirculi, duplò Majores evadant, quàm si ex ejusdem Centro fieret Graduum Dispartitio; quia Angulus a Centro Circuli ad Circumferentiam duplò Major est Angulo qui a Circumferentia in hanc ipsam ducitur; *juxta propositionem 20. Lib. III. Euclid.* A Circuli Centro, five a *Diametri* Medio, in Semicirculi *Apicem*, est *Canalis quadratus oblongus*, intra quem est *perpendicularum*, cujus *Plumbum* in Foramine apud Centrum cum *Filo* Orichalcico monstrat, quando, scilicet, Instrumentum sit perpendiculariter erectum; ita ut *Plano* Semicirculi verticalis omninò correspondeat. *Contignationes* quoque hinc inde adhibitæ, ut vastum hunc Semicirculum in suo Plano & circulari Ductu firmiter contineant. Inter Contignationes est etiam Parvus *Quadrantis* Arcus, cujus *Centrum* est dicta *Diametri* Extremitas; ubi figitur *Regula* tantam a Centro habens Longitudinem quantam habet Semicirculi *Diameter*; cum *Prominentia* retrorùm a Centro, ad cujus Extremitatem sunt duo *Manubria*: ab alterà parte *Plumam* cum *Cochlea* habet *Regula*, ubi in *Quadrante parvo* coercetur; ut in *Loco* statò, ubicunque lubuerit, permaneat *Regula*, donec numerata fuerit *Altitudo* in quâcunque *Limbi* parte.

Hoc Instrumentum undiquaque *Laminis* orichalcicis est vestitum, & habet superiùs *Tres* *Imagines*, Ornatus tantum gratiâ. Earum suprema est ipsius *URANIE Virginis*, decoræ ac formosæ, Astra sublata intuentis ac Manu dexterâ Cœlestium Revolutionum Sphæram attollentis, quæ est in *Astronomia* Hieroglyphicum peculiare: ab Ejus Dexterâ sita est inferiùs *Arithmetica* Imago, sicut a Sinistrâ stat *Geometria*; utraque venerabunda *Uraniam* suspicit, ut ASTRONOMIAM omnium Artium liberalium supremam esse indicaretur, & quasi Regnam, hæc duas, præ cæteris, Ministras sibi adscivisse.

Infra hunc Semicirculum est *Horizon Azimuthalis*, ex solido Chalybe fabricatus, 4 Cubitos in Dimetiente habens, & superiùs in suos *Gradus* ac eorum *portiuunculas* aptè distributus; habens quoque in Medio duo *fortia Ferramenta*, decussatim sese in Centro interfecantia, circâ quod Centrum, etiam, totum Instrumentum circumgyratur; appositis ab altera parte sustentaculis ferreis, quæ *Illud* perpetuò *Horizonti* ad angulos rectos contineant.

Infra

Infra Horizontem ferreum sunt quinque *Columnæ*, quarum una in Meditullio *infra Centrum* consistit, Reliquæ *Circumferentiam* portant, omnesque superiùs habent *Cochleas perennes*, quæ per parva Manubria hinc inde circumducta, fursùm vel deorsùm trudentur, donec *Circulus Azimuthalis*, iis innitens, *Horizontis Æquilibrium* exactè imitetur, sicut *Semicirculus* superstans Planum imitatur alicujus *Verticalis*.

IX. INSTRUMENTUM PARALLACTICUM sive REGULARUM, quod, aliàs, *Regulas* vocant *Ptolemaicas*; siquidem paucis Requisitis, *tribus*, nimirum, *Regulis*, Stellarum a Vertice *Distantias* harum que *Altitudines* succindè metitur. Ejusmodi Instrumento, è Ligneà materià totaliter constante, Me donavit (ait *Tycho*) Anno 1584 *Johannes Hannovius Canonicus Warmiensis*, (ubi antea vixerat *Copernicus*) è quòd olim ad incomparabilem *Copernicum* pertinebat, atque ipsius Manibus elaboratum fuerat: Et paulò post, ad Ejus Imitationem, quoddam aliud *Laminis Orichalcicis* inductum confieri feci, Paucis quibusdam, usùs commodioris Gratià, mutatis & superadditis. Harum trium Regularum *prima* versùs *Zenith* attollitur, *Alterà* superiùs priori associata, atque in tereti *Orichalco* convolubilis; & ambæ ejusdem Longitudinis, modo Longitudo capiatur in quodam puncto *Regula tertià*, nempe quælibet *Regula* fuit 4 Cubitorum; *Alterà* verò est aliquantulum producta & bifurcata, ut aliam *longiorem* Regulam intra se contineat & coerceat, *Tertiã*, nimirum, *Primæ* inferiùs annexam & ibi convolubilem: atque *hæc* *Tertiã* eam habet Longitudinem, quæ requiritur quando *duæ reliquæ*, sive earum bina Latera, Angulum rectum comprehendunt, ubi nimirum *secunda* *Regula* ita sublata est, ut *Horizontis Æquilibrium* respiciat; in cujus etiam Regulæ extremitatibus sunt *Dioptra* quæ rem expediunt per *Rimulas* priori *Pinnacidia* parallelas, suprà & infrà, modo a Nobis invento. In *Copernicano* autem Instrumento erant, loco Horum, *Foramina*, per quæ *Stella* difficillimè visuntur; ideoque incertum fuit inter Observandum an *Stella* exactè in Foraminis Centro conspiciatur, nec ne? atque sic aliquot foret Minutorum Jactura; ut mirum sit, quomodo non solum *Copernicus*, sed & omnes *Veteres* qui talibus utebantur *Dioptris*, aliquid Certi (etiãmsi Cætera rectè se haberent) sic assequi potuerint! In *Tertiã* *Regula* sunt tot *Divisiones Æquales* per puncta transversalia, ut

2

ultimum

ultimum adimpleant Numerum Canonis Sinuum, sex Zyphrarum, requisito Loco, nempe in Eo qui primis duabus Regulis adæquatur, ut fiat *Triangulum* Æquilaterum. Regula prima, quæ Verticem respicit, interiùs *Cavitatem* obtinet quandam cum longis *Janiculis*, in qua est *Filum* tenue orichalcicum cum *Plumbeolo*, ad monstrandum hoc Latus *Verticem* exactissimè respicere: idque efficitur per *Cochleas* in *pedestali* inferiores, quæ *Ferreolis* circumgyrantur. Inherent enim *ha tres* Regulæ cuidam *Columnæ* quæ *Pedestali* insistit; ita ut rotundis *Claviculis* hinc inde convolvi queant.

X. PARALLACTICUM aliud, sive REGULÆ tam ALTITUDINES quàm AZIMUTHA expedientes, quas antea in quâdam *Turri* extruxit *Tycho*, eamque totam suâ Circumgyratione (quando opus est) adimplentes; idque peculiari quâdam Ratione, partim vetustissimum *Hipparchianum* (ut fertur) Modum imitante, partim verò *Novis meis Additionibus* fabricatum, ait vir Magnus. Prima & fundamentalis Regula est ad *Horizontis* Planum disposita, & prout opus fuerit, revoluta, quæ sua Longitudine 8 $\frac{1}{2}$ *Cubitos*, adæquat, sive 12 Pedes cum 9 Digitis continetque in superiori suâ superficie, Canonis Sinuum numeros, artificialiter per *Puncta* transversalia, meo more divisos, sex Zyphrarum bis numeratos. Huic adæquantur *vina alia* REGULÆ simul sumptæ, quum, videlicet, Eidem applicantur, quarum quilibet 4 $\frac{1}{2}$ *Cubitos* in Longitudine continet: Una quidem inferiùs annectitur principio Regulæ Longioris, ut in eo attolli deprimique possit, simulque secum trahere alteram sive posteriorem, eidem convolubiliter affixam. In his autem duabus minoribus Regulis nullæ sunt *Divisiones*, tantùm prior habet *Dioptras* & *Pinnacidia* ad ejusdem Extremitates, per quæ *Collimatio* fit Rimulis undiquaque parallelis, ut tam in *Altitudinibus* quam *Azimutis*, quaquaversùm circa hæc fiat *Collineatio*. Omnes hæ tres Regulæ sunt ubique *orichalcica*, subtilissimè levigatæ & expolitæ, *quadrilateram* obtinentes formam Justâ Magnitudine, ne sint Incurvationi obnoxia: quibus additum est *Extans* quoddam *Sustentaculum*, quod etiam inferiùs suum habet *Fulcimentum* cum *Cochleâ*, quæ, Fulcimentum in substructo totius Instrumenti *Basimento*, ad circularem *Laminam* undiquaque dirigit, ne suo se pondere aggravet. *Extantis* structura, versùs π *Zenith*, id habet Commodi, ut *Regulas* attollat, pro Libitu, & remittat, ac in

O

suo

fuo *Plano* coerceat, ne hinc indè distrahantur. Attolluntur autem & remittuntur intermediente *Funiculo*, qui superiori *Extantis* Parti fixam habet *Rotulam*, in qua aptè trahitur; *primaque* *Regulæ* annectitur. Instrumenti *Situs* Perpendiculari a Tergo *Extantis* examinatur; an, videlicet, *prima Regula* Horizontem exactè respiciat, & an *Extans* sit eidem *orthogonalis*; quamvis idipsum ex alio Perpendiculari, a *Junctura* duarum Regularum pendente, scrutari liceat. Porro ne *Regula* hinc inde vacillent, additi sunt Illis utrinque *duo Quadrantes*, Orichalcicis Laminis inducti, trium fermè *Cubitorum* a Centro ad Circumferentiam; intra quos *prior Regula* continetur & movetur; apposità in eorum Medio *Plumula* tenaci. Tandem extrema *prima Regula* pars *Muro* circulari incumbit, 12 *Cubitorum*; ubi etiam Circulus est *Azimuthalis* orichalcicus, convenienter subdivisus & Superficie *Horizontis* analogus, ac *Basimenti* Altitudini correspondens. Hoc Organum, *prioribus* *Regulis* Majus & stabilius, est *Altitudinibus* capiendis aptius, non verò *Azimuthis*.

XI. ARMILLÆ ZODIACALES. *Armillare* Instrumentum, ad Stellarum Longitudes & Latitudes monstrandas, *Hipparcho* quidem ac *Ptolemao* in usu erat, & ab iis denominatum; in quo tamen Nonnulla ab iis usurpata, Commoditatis gratià immutavit *Tycho*; cujus *Machina* quatuor, saltem, *Armillis* circularibus constat (quum Prædecessores *quinque* vel *sex* habuerint) quarum Prima est *Meridianus* trium *Cubitorum*, *cælesti* Meridiano analogus, cum *Æquatoris Poli* ritè dispositis, qui attolluntur & deprimuntur, donec *Latitudini* ejus Loci, in quo fit Observatio, exactè correspondeant; quod quidem a *Perpendiculari* exploratur superiùs Juxta *Zenith* appenso, ubi *Meridiani Divisio* Complementum habet *Altitudinis Poli*; & tantundem etiam inferiùs a *Polo* altero remouetur *Perpendicularum*. Hic autem *Meridianus* ex solido constat Chalybe, ut, scilicet; *alias Armillas*, intra se contentas firmiùs sustineat; quarum *PRIMA*, *alteram*, *Zodiacalem* nempe, transversim portat, ejusque *Poli* tantum a priùs dictis *Æquinoctialibus* distant, quantum differunt *POLI Ecliptica* & *Æquatoris*; sive maxima *Zodiaci Declinatio* est partium 23. M. 31; a Nobis (ait *Tycho*) aliquotiès exactissimè deprehensâ, paulò aliter quam Prædecessores deprehenderunt. Per hujus
Zodiaci

Zodiaci POLOS transit *Canalis* teres orichalcicus, habens in Centro CYLINDRUM, quibus Nobis, integræ *Armilla* Veteribus usurpatæ, Commoditas suppletur. Quin & alia *Armilla*, Latitudinibus inserviens cum quatuor *Pinnacidiis* rimosis orichalcicis, circa eisdem *Zodiaci* Polos, intra tamen *Alteram*, sive *Zodiacalem*, convolvitur. *Zodiacali* etiam *Armilla* infinguntur quatuor sua *Pinnacidia* rimosa, more consueti, & orichalcica; sicut omnes *Armillæ* *Orichalco* sunt obductæ, & *Divisiones* habent Graduum, in parte exteriori, per *Puncta* transversalia Nobis usitata factas. Atque hæ *Armillæ* *Pedestali* insistant, in cujus summitate *Foramen* est pro recipiendo *Perpendiculi Plumbo*; & hoc *Pedestale* ita est fabricatum, ut totum *Instrumentum* attolli & deprimi possit, & omnes ejus *Armillæ* *Circulis* Cœlestibus, per *Armillas* representatis, ad amussim in suis *Planis* & *Ductibus* respondeant. Requirit autem hoc Organum *Turriculam*, cujus *Tectum*, dimidiâ sui Parte, inter Observandum, auferri queat, & reliqua Pars, prout lubuerit, circumgyrari.

Alterum fuit veteribus Organum, ab *Arabibus* quidem & *Chaldeis*, excogitatum, usurpatum, dictumque TORQUETUM; quod in *Planis* Superficiebus *Circularibus* idem præstat ac Prius in *Armillis* præstitum est. Hoc autem (inquit Tycho) necdum confieri volui; quia si *Machina* requisitam habeat *Magnitudinem*, suo se *Pondere* aggravet, atque usui inhabilis erit: Cujus, nihilominus, Fabricam, si Quis desiderat, Opus *Astronomicum* *Cæsareum* APPIANI, circa Finem consulat, sive SCHONERI *Libellum* de Eodem, præfixum Observationibus clementissimi viri *Regiomontani*, atque ipsius Discipuli WALTERI Civis *Norinbergensis*: Ibi voti Compos reddetur.

XII. ARMILLÆ ÆQUATORIÆ, sunt tres solummodò *Armilla*, cum *Axe* quodam tereti, quæ tam *Æquatorias* SIDERUM Distantias, quam *Declinationes* metiuntur. *Prima* Earum & maxima, ceteras continens & sustentans, *Meridiani* vices supplet, habetque in *Diametro* quatuor ferme Cubitos sive sex Pedes: atque hinc *Ceteræ* interiores æstimandæ; nam ad Ejus Planum disponi & regulari debent. *Axis* revolvitur cum *Armilla* interiore, *Declinationibus* dimetiendis inserviens, in cujus Medio (sive omnium *Armillarum* Centro) CYLINDRUS *Axi* orthogonaliter infigitur, ejusdem *Magnitudinis*, sive *Diametri* cum *Axe*. *Axis* attollendus est cum ipso *Meridiano* (quem

(quem diametraliter tranſit) donec in ejus Diviſionibus, minuta ſingula habentibus, *Perpendicularum* ſuprà & infrà contingat *Complementum* Altitudinis *Poli* ejus *Loci*; ſitque uno *Plano* Meridiani æquidiſtans, ſive *Meridianum* utrobique leniter contingens. *Interior Armilla* Declinationibus inſerviens, & *Axis* Extremitatibus intra *Meridianum* annexa, aliquandò Meridiani *Plano* uniri poteſt, & rurfus intra hunc in quaſcunque Partes circumvolvi; prout *Stella* obſervandæ ſitus requirit. In duobus *Locis* (ubi alteram ambit *Armillam* ad Angulos rectos) habet exterius Laminam, ipſos *Gradus* & *Minuta* *Æquatoris* utrinque indicantem; habetque ſua *Pinnacidia* in quatuor *Locis*, ſive *Quadrantibus*, cum *Rimulis* parallelis, ac *Cylindro* æquidiſtantibus; & ſinguli hi *Quadrantes* in 90 *Gradus* cum *Minutis* 60 diviſi ſunt, more uſitato, & ſæpiùs per Puncta tranſverſalia indicato. Altera verò *Armilla tranſverſalis*, *Æquatoris* Munia ſuſtinens, duobus oppoſitis *Locis* *Meridiano* firmiter annectitur ad Angulos rectos, & in eo quieſcit immota; habentſque, in exteriore ſui parte, omnes *Gradus* cum *Minutis*, & quatuor *Pinnacidia* (ut in priore) orichalcica. *Meridianus* totus eſt *Chalybeus*; ſed bina *Armilla*, decuſſatim ſeſe intra hunc tranſeuntes, a poſteriori tantùm ſui parte Orichalco imbutæ ſunt (ubi *Diviſiones* exiſtunt) quo Minus haberent ponderis: ſunt nihilominùs Aſſerculis ligneis, in rotundam partem coactis, & multipliciter bituminatis, tam artificialiter compoſitæ; ut non ex uno ſolido conſtent Ligno, ſed pluribus in Oblongum tenuiter levigatis, atque hac Cautione ad invicem agglutinatis, ut prout Unum crevit in Altum, *Reliquum* contrario Modo Illi applicetur; eà, videlicet, parte quæ *Cacumen* & *Radicem* reſpicit, univerſa Materià adinvicem commutatà: Ligneæ enim Materia Incurvationi & Mutationi ſunt minùs obnoxia, præcipuè autem Lignum *Inglædiſ* & iſtius *Abietis* quam Germani *Feuchtenholtz* (ſive *Lignum Succidum*) vocant; ſi vitioſum non ſit ac diù exſiccatum. Poſtmodùm verò ſic variis Laminulis ligneis conglutinatæ *Armilla*, ac in juſtam Formam & Magnitudinem deductæ, Linteolo tenui, aut Membranà ipſis agglutinatà, circumducuntur; & Minio *Ceruffa* mixto cum *Oleo Lini* incruſtantur & colorantur, ut minùs Aeris Mutationem ſentiant. Porro, totum Organum *Pedeſtali* ligneo innititur, cum *Cochleis*, quibus dirigitor in requiſitam Diſpoſitionem cœleſtibus, quos imitatur, *Circulis* analogam; ubi

ubi etiam quatuor *Ferramenta* sunt versùs mediam & externam *Meridiani* partem, loco Fulcri; nè hinc inde vacillent *Armilla*: & *Pedestale* in modum Semicirculi rotundum est, ubi *Meridianum* contingit; quà etiam de Causà quatuor *Tenacula* metallica *Meridiano* apponuntur, intra quæ comprehensus, sensim & tenaciter circumduci potest, donec ejus *Axis* Mundi *Axi* correspondeat. Tandemque in *Pedestalis* Lateribus, Ornatùs gratià, solerter appictæ sunt Effigies PTOLEMÆI, ALBATEGNII, COPERNICI & ipsius TYCHONIS: sub Copernico scriptus est Annus 1520, & sub Tychone 1580.

XIII. ARMILLÆ ALIÆ ÆQUATORIÆ ejusdem Quantitatis, quarum Exterior *Meridiani* vices sustinet, ac tota chalybea optimè levigata, & Divisionibus competentibus distributa, in qua Cætera quoque, quoad *Perpendicularum*, *Polos* & *Axem* intelligenda veniunt, prout in prioribus: intra quam etiam continentur *Tres aliæ Armillæ* (eò quòd *Æquator* sit Circumvolvibilis) cum *Axe* tereti & *Cylindro* ei infixo, quæ etiam *unius Armillæ* vices commodè suppleant; quarum *Prima*, e puro Chalybe constat, ut cæteras sustentet & Orthogonaliter cohibeat, nullis tamen *Distinctionibus* insignita. *Alterà Armilla* cum *Pinnacidiis* quatuor, *Æquatoris* vices obtinens, suas habet *Divisiones* usque in singula *Mimuta*, tam ab unà quàm alterà superficie; prout vel *Æquatoriis* Distantiis, vel etiam temporariis *Momentis* discernendis Usus postulat. *Tertià* verò *Armilla*, cum suis *Pinnacidiis*, *Declinationibus* rimandis idonea, est intra *Æquatoriam* (quam Orthogonaliter transit) convolvibilis; ut in Loco sui contactus, *puncta* etiam *Æquatoria* indicet, convenientibus *Laminulis*: *Divisiones* quoque insunt, singulis *Quadrantibus* minutatim competentes. Atque hæc *tres Armillæ* sunt undiquaque orichalcicis Laminis subtiliter superinductæ; *Axis* quoque teres est orichalcicus, uti & ipsa *Pinnacidia*, & *Perpendicularum* e *Filo* constat tenui orichalcico: cætera autem sunt, prout in prioribus *Armillis*. Incumbunt hæc *Armillæ Pedestali* chalybeo, cujus superior pars est *Semicircularis*, ut ipsum *Meridianum*, ab inferiori parte, continuè ambiat & sustineat, additis quatuor *Tenaculis*, ut in priori. *Reliqua* hujus *Pedestalis*, ornatùs & Fulcri gratià adduntur, cujus infimus substratus *Circulus* crassius & ferreus, a quatuor suis æquidistantibus Locis, *Cochleas* habet, quibus in Lapide quadrato substeruuntur quædam parva *Firmamenta*, ut in iis

Cochleæ hæ circumductæ, totum Instrumentum eò dirigant quò *Armilla* Cœlestibus analogæ requiruntur, intermediente *Perpendiculo*, Quod & *Planum Meridiani Mechanici* cum Cœlesti unit, & ejus insuper Dispositionem, ratione *Elevationis Poli*, ordinat; adeoque omnes interiores Armillas, Cœlestibus *Circulis*, quos æmulantur, analogas reddit. Estque tota Machina in seipsâ satis robusta, nec Alterationi faciliè obnoxia, quum undiquaque sit metallica.

XIV. ARMILLÆ ÆQUATORIÆ MAXIMÆ, *sesquialtero* constantes *Circulo*, & paucioribus Requisitis indigentes, utpotè *unicâ* tantum *Armillâ* integrâ convolubili, & alterâ semicirculari quiescente; quibus duabus omnia, æquè ac Prioribus, non saltem commodè expediuntur, sed & longè promptiùs, nulloque Obstaculo, quod Priores ingerunt, si propè ipsam *Armillam Æquatoriam* fieri debeat Collimatio; tunc enim anterior ejus pars Intuitui obstat, sicut etiam in *Declinationum* Armillâ, propè ipsum *Æquatorem*, difficilis est Collimatio; ut de aliis quibusdam Impedimentis non dicam, inquit Tycho. Insuper hæ *Armilla* aliis longè majores, Gradus cum eorum Divisionibus magis adhuc disertè exhibent, suâque stabilitate & Convolutione usui sunt magis accommodæ hæ ingentes & apprimè compendiosæ *Armilla*. Earum maxima, undiquaque Laminis orichalcicis munita, in *Diametro* habet septem Cubitos, sive *Pedes* 10 $\frac{1}{2}$; ideoque Gradus tantos, ut singula *Minuta* quadrifariam subdividantur. Ejusdem *Axis*, e Chalybe constans, undiquaque apprimè teres, interiori tamen cavus, nè pondere officiat, est in *Diametro* trium *Digitorum*, cui circa Medietatem affigitur *Cylindrus* teres orichalcicus, circa quem, proximè apud *Axem*, volvuntur utrinque *bina Regula* orichalcicæ, & ad extremam partem *minus* Regulæ, apud *Armilla* superficiem, sunt *Pinnacidia* per *Dioptras* Rimarum ipsi *Cylindro* parallelarum. Inferiùs definit *Axis* in Acumen teres, ex *Ferro* quadrato chalybeo, habens simile acuminatum Foramen quod per *Cochleas*, hinc inde appositas, potest paululùm trudi, quò lubet. Atque huic innititur *Axis* ille teres unâque convolvens totam *Armillam*; ipsum verò *Ferrum* huic substratum infigitur *Columna* lapideæ magnæ & longæ 4 *Cubitorum* sive 6 *Pedum*, quorum *Duo* Cubiti infra Terram firmo Fundamento instant; reliqui duo superiùs, habentes, ab anteriori parte, ATLANTIS
Mauritania

Mauritania REGIS *Effigiem*, in eodem Lapide artificialitèr excisam, qui Coronâ suâ contingit *Globum* lapideum *Columna* superiùs, ornatùs Causâ, impositum, & cui Globo affigitur *Ferrum* prædictum: suprema verò *Axis* pars alteri *ferreo Fulcro* incumbit, quod superiùs habet *Cochleam* & inferiùs bifurcatum est, transitque in duos Ramos, quorum quilibet magnæ *Columna* tereti, e solido saxo, fortiter affigitur; & hæc distant *Columna* ab invicem, ut *Januam* Ingressui ad *Instrumentum* præbeant: *Cochlea* verò transversum agit *Ferretum Fulcrum*, ut *Plano Meridiani* correspondeat *Axis*; aliâque Ratione attolitur *Axis* & superiùs & inferiùs, & movetur tenaciter, donec *Axi* Mundi exactissimè respondeat, sicque firmatur. Altera Armilla est *Semicircularis* & *quiescens*, & octo *Columnis* lapideis ad *Planum* *Æquatoris* immotè sustentatur, *Tenaculis* totidem ferreis, quæ illam ita cohibeant dirigantque, donec & exactè *Semicirculum* circa *Medium Axis* designent, & insuper secundùm *Æquatoris* Planitiem sese constanter inclinent. Est etiam undiquaque Orichalco induta, ejusque *Diameter* est 9 Cubitorum sive Pedum 13; ideoque Minutissimarum Divisionum capacior est alterâ Armillâ: atque inter utraq; commodè transeundum est, & per *Scalas* etiam extra *Armillam* lapideas ascendit ac descendit *Observator*; sicut interiùs alia sunt *Scala* rotundæ, quibus ascenditur ac descenditur inter observandum. *Murus*, tandem, circumciscâ totum *Instrumentum* ambiens, *Turriculam* quandam & *Semicryptam* efficit, quæ superiùs *Tectum* habet, quod aperiri & claudi potest, ut præciosa hæc *Machina* ab *Aeris* & *Imbrium* Injurîâ tuta sit.

XV. ARCUS BIPARTITUS *minoribus SIDERUM Distantiis* inserviens, est *Regula* oblonga 4 Cubitorum ab una Extremitate in alteram: apud unam Extremitatem est *Regula transversalis*, quæ ad Extremitates suas habet *duos Cylindros*; & ab altera Extremitate *Regula oblonga*, ducuntur inferiùs *bini Arcus*, quorum Quilibet ultra *Æquidistantiam* Semissis *Regula transversalis*, utrinque *Quindecim* efficit *Graduum*. Præter *Consignationes* proprias, habet *Fulcrum* teres & crassum, sub *Medio* *Regulæ oblongæ*, habensque in *Medio*, ubi *Æquilibrium* est, *Foramen quadratum*, ubi suo *Fulcro* in quadratâ etiam *Claviculâ* imponitur. *Fulcrum* verò, propè unam suam Extremitatem & alteram, habet *rotundas Laminas* ferreas,

reas, quæ, in substrato tereti *Cylindro*, Spitamum ad minimum in Diametro habente, convolvuntur, *Plumulis* e quatuor partibus tenaciter ipsum sustentibus, ut quovis in Situ facile subsistat; atque hac Ratione volvitur hoc Instrumentum sursum tantum ac deorsum: si verò ad *Latus* inclinandum sit, id fiet, circumducto *Semicirculo* (qui sub *Fulcro* existit & ejus Extremitatibus annectitur) per suam *Cochleam*. Potest etiam convolvi in omnes Cæli partes per *Canalem* quæ sub *Medio Fulcri* existit & in *Pedestale* insitit; in quo etiam cum toto *Instrumento* circumvertitur, ut *Id* in quarumvis Stellarum *Planum* dirigi possit, prout Observationis Ratio requirit. Potest etiam ejusdem Canalis *interior Axis*, unâ cum *Ipsa*, adeoque cum innitente Instrumento, altius in subiecto *Pedestali* attolli, atque sic figi immotè, prout usus exigit: descendit enim, intra quadrilateram *Pedestalis* Formam, *quadrilaterum* quoque solidum *Lignum* quod sursum ferri atque remitti, & ubicunque lubet, firmari potest; sicque unâ attolli ac deprimi Instrumentum, veluti *Stella*, quarum Intercapedo rimanda est, altiores vel decliviores in *Cælo* fuerint. In Limbis autem *Instrumenti*, ubi sunt *Divisiones*, tum quoque in Transversali & *Cylindris*, omnia sunt, orichalca; Contignationes & *Fulcra* sunt ex Ferramentis affabrè elaboratis; Reliqua *Lignea* solerter composita & Metallicis *Laminulis*, ubi opus est, munita.

Hoc Instrumento (ait *Tycho*) exploravi, potissimum, Stellarum in *Cassiopeæ* adinvicem Distantias; quæ exponuntur *Progymnasiatum nostrorum Astronomiæ Instauranda Capite Quarto pag. 145*, easque cum prius Inventis, dum adhuc duraret *nova Stella* (cujus gratiâ Illæ depromptæ sunt) contuli, atque ritè se habere deprehendi. Porro si Quis Instrumentum quodcunque habuerit, quo se *Distantias Siderum* rimari posse existimet; faciat periculum in iisdem *Cassiopeæ* Stellis, an eandem, quam citato loco annotavimus, invenerit Illarum *Intercapedinem*, in ipso *Minuto*, adeoque ejus *semisse*: aliàs sciat, Instrumentum illud, quo utitur, & Observandi Rationem nequaquam rectè constare.

XVI. SEXTANS ASTRONOMICUS TIGONICUS *pro Distantiis rimandis* & Siderum *Intercapedinibus* cælitus scrutandis idoneus, citrà omnem Hallucinationem; cujus Centrum habet *Cylindrum* orichalcum rotundum & quiescentem; & ejus Circumferentia,

cumferentia *sextam* Circuli partem continens, a *Centro* remotetur *Lateribus* quatuor Cubitorum : atque a Centro ad Circumferentiam applicatur *Regula* cum suo *Pinnacidio* orichalcico, quod *Rimulas* habet *Cylindro* parallelas; potestque *Regula* in *Circumferentia* hinc inde duci & firmari. Alter *Cylindrus* etiam quiescens, priori æqualis, est ad unum *Latus*, circa unum *Cubitus* a *Centro* positum, cui destinatur aliud *Pinnacidium*, additum vel remotum, prout *Ufus* postulârit. In medio verò *Contignationum*, & quasi in *Æquilibrio* totius *Instrumenti*, *Foramen* quadrilaterum transit, ut ejus *Beneficio* imponi possit *Sextans Fulcro* inferiori, & peractâ *Observatione*, removeri. *Limbus* ejus, undiquaque orichalcicus, *Divisiones* habet transversales cum singulis *Minutis*. Reliqua *linea* sunt, sed tam affabrè ex variis *Partibus* composita & conglutinata (prout jam antea in *Armillarum* Explicatione indicatum est) ut incurvari, aut juxtâ *Aeris* Mutationem, alterari, nequeant; superinducto etiam *Linteolorum* Colore *Oleavinoso* : si enim omnes ejus partes *Laminulis metallicis* obtegerentur, nimio pondere intractabile redderetur *Instrumentum*, & sibi ipsi in *debito Plano* retinendo noceret. Hujus *Organi Fulcrum* sic se habet: *Globus* est apprimè rotundus & *Laminulis cupreis* incrustatus, cujus *Diameter* est paulò plus duobus *Pedibus*, in quem hic *Sextans* incumbit juxtâ *Foramen* prædictum. Circâ *Globum* sunt quatuor *Ferramenta* semicircularia, rotundam quandam *Armillam* ferream comprehendentia, octo in *Locis*, circâ *Medium* *Globi*, quæ uno *Digito* distant a *Superficie* *Globi*, cum octo *Cochleis* ferreis, quæ *Laminulam* rotundam *Globo* adigant. Exteriùs *Quadrato* quodam *Ferro*, interiùs autem *Cavo* cuidam *quadratae Columna lignea* affigitur *Globus*; quæ *Columna Pedestale* transit inferiùs, ut in *Eo* attolli deprimique possit, aut certo loco firmari. In *Declivioribus* enim *Distantiis* capiendis demittenda est *Columna* & in *Altioribus* elevanda, ut *Collimationes* sine molestia perfici queant: porro duo oblongi teretes *Baculi*, acuminatum *Ferri*culum habentes, sunt additi, qui decussatim sese transgrediuntur, ut omnia firmiùs permaneant.

XVII. SEXTANS CHALYBEUS pro *Distantiis* per UNICUM OBSERVATOREM dimetiendis, qui potest *Cochleis* disjungi, & in alias *Regiones* transferri; cujus *Arcus* in 60 *Gradus* cum *Minutis*, more solito, divisus est; & ejus *Regula* in *Centro*

cooptantur circa *Calvum* rotundum, ut ampliari vel coarctari queat, instar *Circini*, per *Cochleam* quæ *ambas* Regulas transgreditur. Unaquæque *Regula* habet suum *Manubrium* propè *Cochleam* prædictam, & suum *Pinnacidium* apud *Arcum*, per quod *Oculus* ad Centrum directus, *duas* simul *Stellas* observat, beneficio *Cochleæ* prædictæ per quam *Angulus* applicatur vel coarctatur, dum *Arcus* *Distantiæ* quæsitam ostendit; nisi quoddam *Parallaxis* Instrumenti proveniens, hinc subtrahenda sit; quamvis aliud *Medium* postea fuit inventum, ut paralleliter fiat *Collineatio*, non minùs quàm in cæteris *Dioptris* & *Pinnacidiis*; sicque *Parallexeos* subtractione non erit opus. Hujus autem *Sextantis* utraque *Regula* est Cubitorum circiter *trium* sive Pedum $4\frac{1}{2}$, quibus *Arcus* subtenus coæquatur. Totus *Sextans* e solido Chalybe constat, exceptis *Pinnacidiis* orichalcicis; sed *Fulcrum* & *Pedestale* in hunc Modum se habet: Basis *liguea* decussata *Terra* firmiter infistit, cui infigitur *cavum* *Crus*, in quod longa descendat *Cochlea*, per quam & aliam, *Perennem* dictam, totum *Opus* attollitur vel deprimitur, unàque ipse *sextans*; utraque verò *Cochlea* e solido Ferro constat, sicut & tota superior *Fulcri* pars, quæ est instar *Columnæ* rotundæ & *cava*, cum *Capitello* quadrilatero, e quo *Apex* quidam egreditur, cui longum Ferrum adhæret, quod ipsum *Sextantem* sibi infixum portat, qui per ejus totam Longitudinem extendi potest. *Capitellum*, *Rotularum* Artificio, ita concinnatum est, ut quando ipsius *Cochlea* vertitur, tum *Apex* ille per interiorem *Rotulam*, oblongum *Ferrum* (unà cum toto sibi inhærente *Sextante*) ad *binarum* Stellarum *Situm* hinc inde lateraliter inclinet. *Sextantis* Centrum alteri *Arcui* ferreo infigitur; sed hæc omnia oculari Intuitu & Tractatione melius percipiuntur. Hoc Instrumento usus est *Tycho* in *Syderum* Intercapedinibus scrutandis, præsertim in Observationibus *Cometæ* Anni 1577. Ideoque (*cit. Tycho*) in *Libro* quem luculenter hac de re conscripsimus, circa *Finem*, hic *SEXTANS* describitur a pagina 459 usque ad 461: atque quum *Paulus Wittichius insignis Mathematicus Vratislavienfis*, Anno 1580, apud me hunc *Sextantem* vidisset, eum postea *Illustrissimo Principi GULIELMO Hassiæ LANDGRAVIO Castellis aperuit*, qui per suum artificiosum *Automatopæum*, tale *mox* Instrumentum confici curavit, alteratis quibusdam, sed *Divisionis Formâ eadem retentâ*. Egregia verò est hujus *Organi* comprobatio;

comprobatio; nam Distantiæ per illud Cassellis facta, omnino in Ipso Momento ejusque semisse conveniunt cum iis quos nos in Dania nostris Sextantibus peregrimus: velut ex Epistolarum Astronomicarum Nostrarum Tomo Primo, liquet.

XVIII. ALIUD INSTRUMENTUM pro Distantiis, Priori SIMILE, *Augusta Vindelicorum* in *Tychonis* Adolescentia paratum, ex *lignea* Materiâ, & *Fulcro* destitutum, quum Levitate suâ aliàs utcunque tractabile esset: *atque exinde discedens* (inquit Tycho) *Consuli PAULO HAINZELIO horum Studiorum Aman-*
tissimo hoc Organum reliqui; quum autem reverso mihi in
Patriam, nova illa & supra Modum admiranda Stella mox
calitùs illuxisset, pro ejus Distantiis a Vicinis Cassiopeæ Stellis
subtiliter denotandis, aliud confieri curavi. ARCUS ejus in quo sunt *Divisiones* est ex solido metallo, sed non nimis crassus aut latus, ne Pondere noceat; atque *duodecima* saltem Partis unius *Circuli*, sive *Graduum* 30 Longitudinem habet; eò quòd pro *Minoribus* Distantiis (quales hæ erant) sic sufficeret, nec suâ Longitudine gravis & molestus foret: possunt, nihilominus *alii Arcus*, sive ampliores, sive breviores, Ei applicari. *Bina Regula* ad *Centrum* conjunctæ, & ibi ad invicem convolubiles, ipsamque *Circumferentiam* continentes, 4 Cubitorum *Longitudinem* habent, *Latitudinem* verò trium Digitorum & *Crassitudinem duorum*: sunt enim *Quadrilatera*, ex *Ligno* constantes apprimè sicco, nempe ex *Inglandum* Arbore; & ad *Centrum* metallico *Clavo* copulantur; *Foramine* etiam & *Laminulis* Æneis confirmantur. Ad Regularum *Extremitates* apud *Arcum* sunt *Pinnacidia* orichalcica, quorum *interius* Latus, *interiori* Regularum Superficie præcisè correspondet; & ab altera Parte *inferiori* Cochlea est, quâ *Pinnacidium* mobile, peractâ Observatione, firmatur, donec Numeratio in *Limbo* facta sit. Quin & alia & oblonga *Cochlea* *binas* Regulas transgrediens, a *Centro* remota *duobus* quasi pedibus, cujus Beneficio Instrumenti *Angulus* ad *Centrum* contrahitur & relaxatur, prout exigit *Intercapedo* dimetienda. Intra *hanc* Cochleam versùs *Centrum* est quædam *Circumferentia* uni *Regulæ* affixa & alteram transiens, ut *ambas* in suo *Plano* cohibeat, ne ob *Longitudinem* non nihil distrahantur. Habet insuper *duo Membra*, sed nullum *Pedestale*. Organum hoc iis *Astronomis* sufficit, quibus operosa illa & sumptuosa Instrumenta construendi non suppetit Facultas; atque
 hoc

hoc contenti, rectius & præcisiùs quàm ante hac, per *Radium Astronomicum* factum fuit, *Stellarum* scrutabuntur *Intercapitales*; modò Instrumenti *Parallaxes* ritè & expeditè præcaveant, secundum *Tabellam*, in hunc usum, a me compositam & ab altera Instrumenti parte denotatam.

XIX. INSTRUMENTUM pro ALTITUDINIBUS capiendis vel rimandis inserviens, cujus Circumferentia Circuli SEXTANTEM capit; quo Altitudinem *Stella novæ* in *Cassiopeæ* minimam, Anno 1572, quum in *Meridiano* infra *Polum* esset, scrutatus est TYCHO: *Maximam*, enim, quando *Vertici* appropinquabat, dimetiri eodem non licuit; siquidem, in nostro *Horizonte*, admiranda illa *Stella*, quum supra *Polum* in *Meridiano* esset, non longè a *Zenith* distat; ideoque intra *sextam* Circuli partem ejus *Altitudo* comprehendi nequibat. Prima *Sextantis* hujus *Regula*, sive inferior, in alta quadam *Fenestra* supra *Murum* disponebatur, ut præcisè *Meridiano cælesti* corresponderet, qui *Observationi* adaptaretur; & huic suppositum fuit *Fulcrum* in Parte posteriore versùs *Centrum*, quod istam *Regulam* exactè cum *Horizontis Æquilibrio* elevaret; Idque hoc modo explorabatur: Instrumenti *Arcum* (inquit) cum suis *Regulis* ad *Meridiani Planum* dirigebam, ac in Fine altiori, ubi 60 Gradus desinunt, appendebam *Perpendiculum* cum *Plumbo*, ac *Regulam Inferiorem* sive *Fundamentalem* per *Cuneos* quosdam prope *Fulcrum* positos, attollebam vel deprimebam, (prout opus erat) unàque totum Organum; donec *Perpendiculi Filum* orichalcicum præcisè *Punctum medium* inter *sextantis Centrum* ac *Peripheriam Divisionis* contingeret. Liquet enim inde quod Organi *Regula* inferior sive *Basis*, exactè *Horizonti* equidistat: cum ex *Elementis Geometriæ* (*Euclid. Lib. IV. Prop. 15*) *Sextans Circuli* a *Centro* constituat *Triangulum Isosceles*, quod apparet per *Punctationem* ab *Extremitate* istius *Regulæ* in *Fenestra*, ad *Finem* altiorem istius *Arcus*, ac deinde ad Organi *Centrum*: & quum *Filum* rectè descendens, *Basin* bifariam secet, necessariò id ad Angulos rectos fieri, consequitur (per *Propos. 12. Lib. I.*) ideoque *Regulam* sive *Basin Perpendiculo* esse *Orthogonalem*, ac in *Horizontis Æquilibrio* esse oportet, a quo *Vertex* undique Circuli *Quadrante* distat, qui *rectum Angulum* efficit. Omnibus ita ordinatis, attendi ad *Pinnacidium Regulæ* secundæ apud *Arcum*, donec, *Motu Universi, Nova Stella*, in suo declivior

decliviorē Situ *Meridianum* contingeret; atque tunc colligamavi per aliud *Pinnacidium* priori analogum, non longe a *Centro* appositum, & quod removeri poterat: in priorē enim ejus parte *Rimula* quædam erat, per quam inter Observandum, motū longā *Cochleā*, Instrumenti *Angulis* variabatur, donec novam Stellam, in superiori *Limbo* *Pinnacidii* superioris, præcisè collinearem; dimidiā ejus partē viſā, alterā latente.

XX. QUADRANS MAXIMUS, quem extruxi (inquit *Tycho*) ante Annos 26 in Horto Domini Pauli Hainzelii, apud ejus Prædium, distans ſemisse Milliaris ab *Angulā Vindeheorum*; & quāto elapſo Quinquennio doſolatus ſit, ejus Descriptionem hic narrare mihi viſum eſt. Totus erat e quercino Robore multis Annis exſiccato elaboratus, & *Latera* atque *Contignationes* inſtar *Trabium* magnarum fuere, habebatque in *Radio*, ſive a *Centro* ad *Circumferentiam*, ad minimum 14 *Cubitos* ſive *Pedes* 21 $\frac{1}{2}$. *Limbus* verò, ubi erant *Divisiones*, *Laminis* orichalcicis obducebatur. *Contignationes* intertextæ, ex tranſverſariis *Trabibus* compactæ & levigatæ, in eum Uſum diſponebantur, ut totum *Quadrantem* firmius continerent atque in ſua juſta *Quantitate* & *Plano* combinarent. *Diviſio* autem erat ſolummodo ſecundum *Formam* tunc uſitatam; non enim aliam & commodiorem tunc adinveneram, quā etiam poſtea in aliis Inſtrumentis uſus ſum: poterant, nihilo ſeciùs, ſinguli *Gradus* non ſolùm in ſingula *Minuta* ſic diſtribui, ſed & quodlibet *Minutum* in ſex *Particulas*; ita ut *dena* etiam *Secunda* diſcretè ſuppeditàrit. *Pinnacidia* erant propè *Centrum* in altero *Quadrantis* *Latere*, apud quod *Obſervator* conſiſtèret juxta horum Unum ſive *Inferius*, quod *Oculo* proximum habuit in *Meditullio* ſuo *Foramen* parvum, per quod *Foramen* *Stellæ* collineabantur in *ſuperiori* ſive altero *Pinnacidio* juxta *Lineam diametralem* apud dictum alterum *Pinnacidium*. Si verò Sol obſervandus foret, adhibebatur aliud *Pinnacidium* perforatum in anteriori *Loco* juxta *Alterum*, quod per rotundum *Foramen* admittebat *Solis Lumen* intra *Circulum* ipſius *Quantitati* analogum, ab interiore *Pinnacidii inferioris* Parte; adhibito præſertim *Canali* quodam oblongo, ut *Lumen Solis* eò minùs in *Aere* diſſiparetur, & exactiùs intra *Limites* ejusdem *Circuli* diſcerneretur. Porro juxta *Centrum* appendebatur *Filum*

R

orichal-

orichalcicum tenue quod *Plumbum* aliquot Librarum in *Foramine* sustinere potuit, ne *Filum* Vento facile dimoveretur; *Filum*, enim, juxta Contractum quàm exactissimè monstrabat *Divisionum Altitudinem* quæsitam.

Inhærebat verò hæc Machina, *Columna* quercinæ crassæ ac robustæ, circa *Centrum*, in tereti Ferro forti posteriùs firmato; sustentantibus etiam ipsum *Limbum* duobus *Capreolis* paulò suprà *Foramen Plumbi* adaptatis ut *totus Quadrans*, in attollendo vel deprimendo, ad *Columnam* arcuè constringeretur & cohiberetur, nè suo recideret pondere antequàm Observationis Numeratio foret peracta. Ipsa verò *Columna*, inferiori sui parte, in quadam subterranea Structura firmabatur & convolvebatur; ita ut quum infimâ sui parte sit acuminata & Chalybea, in *Foramine* substrato ejusdem Formæ, facillimè circumducebatur, rotundo superiùs *Foramine conoidali* apud ipsum circumquaque continente, nè hinc inde vacillaret, sed ubique tam ipsa *Columna* quàm *Quadrans* illi inhærens circumageretur in omnia *Verticalium Plana*, per duo *Manubria* trans Medium *Columnæ* posita. *Totum* infra *Manubria* crypticum erat, firmiter compaginaturn & lapidibus fulcitum, quo Machinam firmiùs sustineret atque firmaret: consistebat enim ipsa Machina sub *Dio*; tegebatur, nihilominùs, in sua saltem Circumferentiâ, nè *Limbus Divisionum* quidpiam caperet Detrimenti. Atque per hoc Instrumentum Dominus Hainzelius in mei gratiam denotavit, tum *Nova Stella* tum quarundam aliarum *Altitudines*, quas mihi communicavit.

XXI. QUADRANS MAXIMUS Chalybeus, Quadrato inclusus & Horizonti Azimuthali chalybeo insilens. Hunc Quadrantem Numero VII. hætenùs delineavit, aliâ tamen Ratione dispositum; ita ut intra *Cryptam Muralem* in Axe quodam forti Chalybeo, *Zenith* & *Nadir* respiciente, convolveretur, & simul intra *Muri cryptici* Circumferentiam, *Armillam* firmam haberet *Azimuthalem*: sed hic *Altera* representatur Ejusdem Dispositio, cujus *Figura* videre est in *Astr. Inst. Mechan.* Veruntamen, quum eidem usui inservit Unus & Alter, Lectorem diutiùs non detinebimus.

ALIA QUÆDAM INSTRUMENTA breviter descripsit *Tycho*, quæ, dicit, nondum exsculpta sunt, scilicet,

1. *Sextans Bifurcatus.*
2. *Semicirculus amplius,*
pro majoribus *Dis-*
stantiis cælitus de-
notandis.
3. *Radius Astronomicus.*
4. *Annulus Astronomicus.*
5. *Armilla portatilis.*
6. *Astrolabium Catholicum*

sed quum *nobilis* *Tycho* sibi e *Dania* Patriâ suâ dulcissimâ, migrandi Necessitatem incumbere, tacite prævideret, alia quædam Organa *Astronomica* excogitavit, quæ paucioribus Requisite omnia exhiberent, & in alia *Terra* Loca transvehi pollent; si fortè, inquit, illa qua in *Dania* possiderem, non satis citò & absque Incommodo ad me transferri curare liceret.

XXII. Tandem GLOBUM MAGNUM ORICHALCICUM describit, habentem in suo *Diametro* 6 proximè pedes, summâ Diligentia, nec minori Sumptu, confectum. Interiùs lignæ Materiâ constabat, affabrè ex multis *Armillis* & *Frustrulis* intertextis, iisdemque hinc inde a Centro fulcitis, compositâ; & postea in Globosam Formam tornatâ, *Augustæ Vindelicorum* Anno 1570 ac in *Daniam* Anno 1576 non sine Difficultate advectâ; ac per Biennium Periculo factò, tandem *Laminulis* orichalcicis justæ Crassitiæ Eam totaliter superinduci tutò curavi, tantâque Subtilitate ut ex solido Orichalco Globum constare diceres, quem etiam mox in exactam *Globi* Formam levigari feci, cum suis *Polis*, *Æquatore*, *Zodiaco*: & post aliud Periculum per 12 Menses, Ei quoque adaptavi *Octava Sphæra* SIDERA locis convenientibus, quæ Annis successivis, magis magisque numero aucta, tandem *Millenarium* complerunt; ita ut omnes *Stellas*, quotquot Visui vel parumper patent, illi adaptarim; relatis earum Locis consultò ad Annum 1600 completum & brevi instantem: sicque præterlapi sunt Anni circiter 25, a prima *Globi* hujus Confectione, donec Is *Divisionibus* & *Stellis* suis absolveretur. Ejus exteriores adaptatæ sunt *Armilla*, viz. *Meridianus* & *Horizon*, intra quos comprehenditur & in *Axe* suo circâ *Polos* revolvitur: *Meridianus* è solido Chalybe *Divisiones* habuit singulorum *Minutorum*, & *Horizon* *Spithamæ* Latitudinem habens, *Orichalco* etiam superinductus, & in suos *Grados* ac *Minuta* fuit *Azimuthaliter* divisus. Descendit verò a *Zenith* QUADRANS verticalium *Circularum* orichalcicus

cicus in *Horizontem* definens, atque in 90 *Gradus* cum *Minutis* subdivisus, qui tam *Altitudinibus* in semetipso, quam *Azimutis* in *Horizonte*, numerandis inservit: Atque totum Instrumentum *Pedestali* innititur, cum quatuor *Ferramentis* decussatim se transeuntibus; totumque hoc *Fulcrum* circiter 3 Pedes altum est.

Quantam *Globi* Machinam, tam solidè ac subtiliter elaboratam & undiquaque ritè constantem, a Nemine hactenus in quavis *Orbis* Terrarum Parte (*absit Invidia Dicto*) constructam & absolutam esse arbitror: Opus quidem ingens & magnificum! quod ut Multi è variis Regionibus, una cum cæteris meis *Organis*, conspicerent, in *Daniam* profecti sunt, dum *URANIÆ* Regnum incolume atque *Arx* incluta stabant.

Circa *Horizontem* hæc verba literis aureis majusculis leguntur, viz.

ANNO A CHRISTO NATO CIO, IO, XXCIV, REGNANTE IN DANIA FRIDERICO SECUNDO, HUNC COELESTI MACHINE CONFORMEM GLOBUM, IN QUO AFFIXA OCTAVÆ SPHERÆ SIDERA COELITUS ORGANIS DEPREHENSÆ, SUI QUÆQUE LOCIS AD AMUSSEM REPRESENTARE; ERRANTUMQUE STELLARUM PER HÆC APPARENTIAS PERVESTIGARE DECREVIT, COELO-TERRIGENIS, QUI RATIONEM EAM CAPIUNT, MECHANICO OPERE PATEFACTO, TYCHO BRAHE O. F. SIBI ET POSTERIS F. F.

Annus hic 1584 adscribitur, quod *Is* circa medium Tempus, dum hæc Structura elaboraretur, incideret; *Quadriennio*, nimirum, ante obitum *laudatissimæ Memorix* Regis FRIDERICI, qui me meaque Studia liberaliter & clementer fovit, ac *Regio Amore*, quoad vixit, profecutus est.

Habet autem, præ cæteris Instrumentis, hoc, ob suam Magnitudinem, Prærogativæ, quod Omnia in Eo exactissimè, adeoque in *Ipsò Minuto*, exequi liceat: atque sic singula quæ *Primi Mobilis* Doctrinam concernunt, & *Cœlestium* Corporum *Observationes*, respectu *Æclipticæ* & *Æquatoris*, aliorumve quorumvis in *Sphæra* Circulorum, minimo Negotio & absque laboriosa Supputatione, hic mechanicè perficiuntur.

Dicta sufficiant de ORGANIS ASTRONOMICIS ab ipso *Tychone* fabricatis, & in sua *Astronomia Mechanica Instaurata*, cum Eorum *Usibus*, plenè ac planè descriptis, & secundum Eorum

Icones, five *Formas & Figuras*, delineatis. Atque sicut Vir hic Eximius Monumentum Astronomicum exegit Ære perennius, Hæc, quidem, in maximi hujus *Astronomorum* PRINCIPIS Honorem, grato Animo hic recitare nobis visum est Idoneum; Et ipsa Rei-Utilitas, omnes *Cælo-Terrigenas*, procul Dubio, in perlegendis hisce 25 Paginis oblectet; quum præsertim Liber *Tychonis* prædictus (de *Astronomia Mechanica Instaurata*) rarus sit quidem, nec sæpè in *Anglia* prostat venalis.

• VERUMENIMVERO *Omnia hæc Instrumenta* descripta sunt ab *Historia Cælestis Editore*, ex *Astr. Inst. Mechan.* excepto tantum TORQUETO, quod (sicut numero XI^{mo} nobis narrat ipse *Tycho*) non fabricatum fuit; quoniam suo se pondere aggravat & sic Usui inhabilis est. At raro indicat *Editor* quales fuerint *Radii Instrumentorum* ab Eo descriptorum; & quasdam Eorum præcipuas Circumstantias cognitu perquam necessarias sæpissimè oblitus est, quæ propterea præcedentibus Descriptionibus hic sunt insertæ.

Ex horum Instrumentorum Descriptionibus, in æternam NOBILIS TYCHONIS *Memoriam* hic enumeratis, liquidò constat, maximum hunc *Astronomum* usum fuisse Amplo quodam *Globo* cum *Scapho* five *Civitate*, ut suum *Sextantem* faciliùs agitare & in *duarum* quarumvis *Stellarum Planum* disponeret. *Globi* quidem *Diameter* duorum erat *Pedum* aut amplius, *Laminis*que cupreis vel orichalcicis benè elaboratis ac exacte politis, in crustatus & apprime rotundus. *Scaphus* autem constabat *quatuor Laminis* ferreis *Semicircularibus*, *Circulum* ferreum, five *Annulum*, five quandam *Armillam*, circa *Globi Medium* octo in Locis decussatim sustentantibus; quarum *Laminarum singula* circa unius *Digit*i spatium vel paulo plus a *Globo* distat; & in octo istis Locis (ubi *Annuli Artum*, five *Limbus*, tangunt istæ *Laminæ*) octo *Cochleæ* ferreæ inferuntur, *Laminam* sustinentes *oblongam* ad *Globi Lat*us cui *Sextans* infigitur, per *Embolium*, five *Clavem* ferreum in suæ *Gravitatis Centrum* infixum & in *Globum* receptum; quo ultrò citròque agitari, five omnifariam circumagi, atque in quamvis *Positionem* requisitam constitui poterat: ut videre est Numero XVI.

Sed quanquam hocce Instrumentum, *Rei Astronomica* exactè accommodum & expeditum redderet *Ufus* frequens; veruntamen Eo talia operatus est Nemo, qualia præstita fuere meo *Sextante* apud *Greenwich* Ope *duarum Cochlearum* per-

rennium, ac duorum Semicircularum dentatorum; sicut ex ejusdem *Figura* videre est.

Porrò animadvertendum est *Armillas* TYCHONIS *Æquatoriales* ita fuisse fabricatas, ut in Partes disjungi, in Capis aut Thecis recondi, ubicunque circumferri, ac ope *Cochlearum* rursus conjungi, facili Negotio potuerint: Atque per hanc Instrumentorum suorum Fabricationem nobis indicat *Vir Magnus*, se non fuisse ignarum, quantæ *Aulicorum* Invidiæ, ob suam in *Re Astronomica* Scientiam non vulgarem & Eruditionem eximiam, *Regisque Optimi* Benevolentiam, fuerit obnoxius; Seque istius *Invidiæ* fructum ingratum præmaturè demessurum, prudenter valdè est suspicatus: ut patet ex sui

In Fine Descriptionis
Organis XIII.
Astr. Inst.

Ipsius verbis, "Subjungam verò & hoc (*inquit*) quod hæ *Armilla* certis *Cochleis* disjungi queant ac rursus componi: Idem potest fieri in ipso *chalybeo Pedestali* sive *Fulcro*; ita ut commodè in alia Loca transvehi queant: & in omnibus Instrumentis ubicunque, sine Illorum Detrimeto, idem præstari debet. Oportebit enim Astronomum esse *Κοσμοπολίτης* ita ut, si Necessitas & Usus postulet, non uni alicui Regioni ita adstrictus sit, quin aliò etiam migrare & sua secum ferre Instrumenta, liberè & libenter velit & possit. Quum enim paucissimi sint qui hisce arduis Disciplinis & Exercitiis occupentur, & rarissimè inter *Politicos* (qui *Reipublica* Administrationi præesse volunt) aliqui inveniantur qui his impensè delectentur, eaque fovere ac sustentare consultum ducant; sed longè Plures qui Ea, ob Ignorantiam, averfantur atque inutilia æstimant; non oportet *Divina Astronomia Alumnorum* talibus imperitis Judiciis obnoxium esse, sed Ea ex alto negligere, & nihil satius existimare quàm hisce invigilare Studiis, nihilque Aliorum moveri Importunitatibus; & quando nimis sint molesti, sive *Aulici*, sive *alii*, se suaque aliò transferre: adeo ut, nè *Natale* quidem *Solum*, quod Dulcedine Cunctos allicit, immemorem nec finit esse sui, nec hisce cœlestibus & sublimibus Curis (quæ *Immortalitatis* vestigia præ se ferunt) ipsam *Patriam* antepondere debet *Astronomus*, sed constanti & perseveranti Animo semper, in omnem Rerum Eventum, secum cogitare, quòd

Undique Terra infra, Cœlum patet undique supra,
Et Patria est Forti qualibet Ora Viro.

quam

quam quidem *Tychonis* Prævisionem comprobavit Eventus; quando enim *Aulici*, & in Dania Apolesti, Salarium ejus & annuam Pensionem retinuerunt, ut seiplos locupletarent; post, scilicet, optimi Regis *FRIDERICI II.* mortem, in *Germaniam* secedere, & ibi quasi Asylum quærere, optimum hunc adegerunt *Astronomum*; (pudet hæc Opprobria *Danist*!) tunc enim omnia sua Instrumenta in Thecis reposita (exceptis *Murali Quadrante*, magnoque *Globo cœlesti*; Unum, enim, Loco suo dimoveri nequibat, nec Alterum in partes dissecari sine ejusdem perpetuâ Ruinâ) secum portavit & erigi curavit, ubicunque Sedem fixerat suam: atque prædictus Dominus *Roemerus* mihi narravit, *Globum* istum *Magnum* adhuc sanum in *Dania* extare ac incolumem. Luminaria vel Specula in omnibus suis Instrumentis erant paria & simillima; *Cylindrus*, nempe, aut *Acus aeneus* accuratè tornatus & in Centrum erectus, cujus *Diameter* erat unius quasi *Digiti*, ut opinor, vel plus minùs; (non enim semper ejusdem Magnitudinem accuratam narrat) ab alterâ verò *Indicis* Extremitate, propè *Collimantis Oculum*, *Lamina* stabat *anea* cum duabus *Fissuris* sibi ipsis parallelis, & ad *Indicis*, seu Instrumenti, *Planum* Perpendicularibus; ita verò fabricatis, ut Ope *Cochleæ* perennis, *Laminarum Fissuræ* effici possint aut *latiores* aut *angustiores*, & ut sic *Observatoris* Oculo optimè adaptarentur. Inventionem tali utitur etiam *Hevelius* in omnibus Speculis Instrumentorum in sua *Organographia* descriptorum; cui Libro relegandus est Quisquam plenioris desiderans hac de Re Instructionem. Atque Nobis hoc tantùm hic Addendum est, *Tychonis Cylindrum Centralem*, in ejusdem Medio, parvum habuisse *Foramen*, *Indicis Axi* parallelum, per quod *Solis Radii* transmittendi ac recipiendi erant super *Inamnam Speculi* propè Oculum, & super Circulum ad *Solis Radios* recipiendos amplum satis, quodocunque *Sol* erat observandus.

Pluribus immorari supervacaneum duco, quum hæc *nuda* Luminaria vel *Specula* in utendo difficillima sint, & *Collimatio* per Ista sit valde incerta; præsertim quum Instrumentis Astronomicis *Specula Telescopica* Modum Applicandi jam dudum invenerimus, quibus *Collimatio* facilis redditur, certa & exactissima.

Veruntamen

Veruntamen Operæ pretium erit aliquantisper differere de
Eis QUÆ (ait *Tycho*) HACTENUS DEI DONO IN ASTRONOMIA
EXANTLAVIMUS, QUÆQUE POSTHAC, EODEM FAVENTE, EXE-
QUENDA RESTANT. Ipsiſus ſermè Verbis, *Aſtr. Inſt. Mechan.*

“ Anno, *inquit*, 1563, Tempore Magnæ iſtius Conjunctio-
“ nis ſuperiorum Planetarum, circà Finem *Cancrī & Leonis*
“ Initium, Juxta Ætatis noſtræ Annum 16 completum,
“ *Lipſiæ*, ex *Ephemeridibus* aliisſque Libris, Rudimentorum
“ Aſtronomiæ Initia feci nonnulla; naturali quadam Inclina-
“ tione & reluſtante meo Pedagogo, qui me *Jurispru-*
“ *dentia* Operam dare maluit: atque brevi, omnes *Cæli*
“ Aſteriſmos in illo *Horizonte* commodè dignoſcendos, ex
“ Globo quodam Parvo, inſtar Pugni, intra Menſis Spatium,
“ proprio Marte & Nemine præmonſtrante, didici; nec aliàs,
“ *Mathematices* Præceptorem habui, cæteroquin citiùs in Ea
“ & plùs fortè profeciſſem. *Planetarum* etiam Motibus mox
“ attendebam; at quoniam ex Eorum *Commixtionibus* cum
“ *Stellis Fixis*, tum quoque per *Lineas* hinc inde ductas,
“ animadvertēbam, vel ex parvulo iſto *Globula*, Eorum
“ Loca cœleſtia Calculo non congruere, ſive *Alphonſino*, ſive
“ *Coperniceo* (*licet huic magis quam illi*) ideo indies diligen-
“ tius Eorum Apparentiis denotandis invigilavi, & ſubindè
“ cum Calculo *Tabularum Prutenicarum* (quem proprio
“ Studio mihi familiarem reddideram) Eos contuli; *Epheme-*
“ *ridibus* non confidens, tunc ſiquidem perquàm mendofis.
“ Sed quum Inſtrumenta nulla in promptu haberem (*invi-*
“ *dente mihi ea Pedagogo*) *Circino* quodam Majuſculo utebar,
“ applicatà nempè ejus Juncturà Oculo, & utroque Pede in
“ *Planetam* obſervandum & *Stellam* aliquam *fixam* vicinam
“ directo: atque ſic ab illa magnà *Conjunctione* Anni 1563
“ exorſus ſum, in Motu *Saturni* & *Jovis*: Ea enim *Alphon-*
“ *ſinos* números Integro Menſe ſefellerit, & *Copernici* Números
“ pauculis aliquot Diebus; nam ejus RESTITUTIO in hiſce duo-
“ bus *Planetis* non uſque adeo a cœleſti Norma digreditur, præ-
“ fertim in *Saturno*, quem nunquam ultra 30' Minuta vel ad
“ ſummum ultra unum Gradum, *Copernici* in Cœlo eludere
“ Calculum animadverti; ſed *Jupiter*, interdum, aliquantò
“ majorem ſuggerit Differentiam. Anno 1564 RADIUM
“ quendam Aſtronomicum e Ligno mihi clanculariè conſieri
“ feci, ex Præſcripto *Gemma Friſii*, quem per Puncta transfal-

“ versalia ab *Homelio* suo Præceptore hausta, diligenter di-
 “ stribuebat *Bartholomæus Scultetus*, qui tunc *Lipsia* degens,
 “ ob Communia Studia mihi familiaris erat. Hoc *Radio* adepto,
 “ sæpè integras Noctes, dormiente ac incio *Pedago*, e
 “ Fenestra Tabulati cujusdam, Sideribus capiendis invigilavi,
 “ atque seorsim *Libello* cuidam inscripti: sed paulò post
 “ percepi Distantiarum *Angulos* vario modo, secundum Di-
 “ visiones *Radii* æquales, acceptos, & interveniente *Propor-*
 “ *tionum* Regulâ in Numeros Geometricè relatos, sibi ipsis
 “ non per omnia congruere; quare, indagatâ Erroris Occasione,
 “ *Tabellam* adinveni, quâ *Radii* istius Vitia emendare
 “ licuit; neque enim novum *Radium* confieri permisit meus
 “ *Pedagogus*: sicque hoc primo Instrumento multas Observa-
 “ tiones *Lipsia* ac postea in *Patriam* revocatus exequabar.
 “ Deinde rursus in *Germaniam* abiens, primò *Witteberga*,
 “ moxque *Rostochii*, Sideribus attendebam; Annoque 1569
 “ & sequente, *Augusta Vindelicorum*, præter *Quadrantem*
 “ illum maximum in *Hainzelii* Horto erectum (de quo dictum
 “ est Num. XX.) etiam *Sextante ligneo* Sidera observabam,
 “ & peculiari *Libro* denotata consignabam; & in *Patriâ*
 “ denudò reversus alium similem *Sextantem* confieri curavi,
 “ præsertim quum admiranda illa nova *Stella* 1571 illuxit,
 “ atque me a *Pyronomicis* Laboribus ad *Cœlestia* consideranda
 “ revocasset; quam diligenter observatam, primùm tunc tem-
 “ poris, parvo quodam *Libello*, tandemque integro *Volumine*
 “ fideliter & accuratè descripsi. Postea successivè alia atque
 “ alia *Organa Astronomica* confieri curavi, quorum Aliquæ
 “ mecum per totam *Germaniam* iterùm peregrinando &
 “ aliquam *Italia* partem transeundo, apportavi. Demùm
 “ verò in *Patriam* reversus circà Annum ætatis 28^m, ad alium
 “ & diuturniorem Abitum, tacitè paulò post, me preparabam.
 “ Nam *BASILÆ RAVACORUM* aut in Ejusdem Vicinia, Sedem
 “ figere meam constituebam, ut ibi *Astronomia Instauranda*
 “ *Fundamina* ponerem, in Concurfu quasi *Italia*, *Gallia* ac
 “ *Germania*, ubi melius etiam hæc cœlestia Studia excolere
 “ putavi quam in *Scania* atque Sede meâ paternâ *Knudstorpia-*
 “ *nâ*. Verumenimvero dum hæc Animo volverem, jamque me
 “ Itineri accingerem, serenissimus & potentissimus *Dania* ac
 “ *Norwegia* Rex optimus & nunquam satis laudandus *FIDERICUS*
 “ II. sponte suâ & clementi Voluntate, Insulam illam celeberrimi

“ *Porthmi Danici, Huenam* Noſtratibus, Latinis *Veniſſiam*,
 “ Britannis *Scarlatinam* dictam, mihi obtulit; atque rogavit,
 “ ut ibi *Ædificia & Instrumenta* pro Exercitiis *Aſtronomicis*
 “ & etiam pro Laboribus *Pyronomicis* fieri curarem, ſequæ
 “ Sumptibus liberaliter iis proviſurum, clementer addixit.
 “ Mutatâ igitur priori meâ ſententiâ, Regiæ Voluntati non
 “ invitè acquievi, præſertim quum in iſta Inſula, inter *Scar-*
 “ *niam & Zeelandiam* poſitâ, ab Interpellantium ſtrepitu libe-
 “ rari potui. Mox igitur *Uraniburgum Arcem* rebus *Aſtro-*
 “ *onomicis* idoneam extruere cæpi, Anno; nimirum, 1576
 “ Annisq̃ue ſucceſſivis; ac Interea *Obſervationibus* ſtrenuè
 “ invigilabam, accitis in Harum miniſterium pluribus *Stu-*
 “ *dioſis* acumine Ingenii & Viſus pollentibus, quos & ſuſten-
 “ tavi & in hiſce Diſciplinis aliisq̃ue Philoſophicis inſtruxi.
 “ Sicque *Dei* Benignitate plurimas, eaſque exactiſſimas *Ob-*
 “ *ſervationes* cœleſtes *Aſtronomicas* adepti ſumus (nullâ ſerme
 “ *Serenitate* prætermiſſâ) tam in *Fixis* quàm omnibus *Erra-*
 “ *ticis*, tum quoque *Cometis* interea eluceſcentibus, quos
 “ *Septenos* iſthic Cœlitus accuratè denotavimus.
 “ Peractæ autem ſunt, hac Ratione, *Uraniburgi*, 21 An-
 “ norum ſedulæ *Obſervationes*, quas primò in Magnis Vo-
 “ luminibus conſcriptas, & poſtea ſeorſim in ſingulos Libros,
 “ pro quolibet, nimirum, Anno, diſtribui, & ad Mundum
 “ deſcribi curavi; idque tali Ordine peregi, ut *Stella fixa*
 “ ſeorſim, quotquot illo Anno fuere denotatæ, ſuum habe-
 “ rent Locum. *Planeta* verò proprium habère & peculiare
 “ Locum, diſtinctè incipiendo a SOLE & LUÑA, & per reli-
 “ quos quinque *Planetas* tranſeundo, uſque ad MERCURIUM:
 “ nam nè *hunc* quidem inobſervatum reliquimus, ut ut ra-
 “ riſſimè pateat; quinimo ſingulis penè Annis *Mercurius* a
 “ Nobis, tam Matutino Tempore quam Veſpertino, diligen-
 “ ter denotatus eſt: quamvis *magnus ille* COPERNICUS, quodd
 “ hunc non obſervarit, ob *Sphæra* nimiam Inclinationem &
 “ *Viſula* Fluvii vapores, ſe excuſet: quum tamen *Nos* in
 “ *Sphæra* adhuc paulò Inclinatiore, inque *Inſula* undique
 “ Mari magis vaporoſo cinctâ, Eum multotiès conſpexerimus
 “ atque demenſi ſimus: ſed fortè *Ædes* Habitationis *Coper-*
 “ *nici* erant ita diſpoſitæ ut liberum undiquaque non præbe-
 “ rent *Horizontem*, ideoque *Obſervationibus*, præſertim ejus-
 “ cemodi *declivioribus*, minùs commodæ: quod & retulit
 “ mihi

“ mihi *Studiosus ille meus* quem ante 14 Annos ed̄ ablegarām,
 “ *Altitudinis Poli* examinandæ Causā. Quocircā *Copernicus*,
 “ propriis in *Mercurio* Denotationibus destitutus, *Nonnullas*
 “ ex Libro *Observationum Gualteri Discipuli Regiomontani*
 “ & *Cris Norimbergensis* mutuari coactus est, quas, licet non
 “ satis fideliter & præcisè, suis Placitis ac Demonstrationibus
 “ applicuerit. Optandum tamen foret, ut in reliquis *Planetis*
 “ (quos ex suis *Observationibus* restituere ingenti Ausu labo-
 “ ravit) non multò *Incertiores* obtinuisset: tunc certè *Apogææ*
 “ & eorum *Excentricitates*, reliquaque hūc conducentiā
 “ longè emendatiora nunc haberemus; *Eoque* multorum
 “ Annorum maximis & indefessis Laboribus Sumptibusque
 “ ingentibus parcere potuissē. Quare quum 21 Annorum
 “ selectissimas & accuratissimas *Observationes*, variis & affabrè
 “ elaboratis Organis cœlitūs conquistas in Promptu habeam
 “ (ut nihil nunc de 14 Annorum præcedentium Animadver-
 “ sionibus dicam) Eas, rarissimi ac pretiosissimi Thesauri
 “ loco, custodio; quas tamen cunctas, aliquandò fortè,
 “ publici Juris faciam, ubi adhuc plures iis adjungere, DIVINA
 “ concefferit CLEMENTIA.

“ Exinde liquet me *Siderum Observationibus* vacasse ab
 “ Ætatis Anno 16^{to} per Annos, nempe, 35; aliæ tamen *Ob-*
 “ *servationes* sunt aliis certiores & præstantiores: nam quas
 “ *Lipsiæ*, & usque ad Annum Ætatis 21^{am}, peregi, *Pueriles*
 “ & *Dubias* appellare soleo; *Easque* postea in 28^{am} Ætatis
 “ Annum adeptas, *Inveniles* voco & *mediocriter* se habentes;
 “ *Tertias* autem peractas *Uraniburgi*, exactissimis illis Instru-
 “ mentis, in maturiore Ætate, per 21 fermè Annos, usque in
 “ Ætatis 50^{am} completum; *has* inquam, *Viriles*, *Raras* &
 “ *Certissimas* appello ac censeo; *quibus* etiam, potissimùm,
 “ *Astronomia Redintegrationem* fundare atque exstruere, arduis
 “ enitor Conatibus; licet & *Nonnulla* ex præcedentium An-
 “ norum *Observationibus* hūc non parum conducant.

*Qua vero in his, ex Dei Ope, hætenus
 præstitimus & elaborata habemus, Quaque
 in posterum, Ejusdem Numinis Beneficio
 exequenda perficiendaque restant, in hunc
 Modum se habent, viz.*

“ SOLIS

" SOLIS, ante omnia, ex plurium Annorum accuratissimis
 " Observationibus restituiumus *Motum*, non saltem *Æquinocti-*
 " alibus Ingressibus accuratissimè rimatis; sed & *Locis* atque
 " *Solstitialibus Punctis* intermediis unà adscitis, præsertim in
 " *Boreali Æcliptica Semicirculo*; siquidem ibi *Refractioni-*
 " bus SOL Meridianus non sit obnoxius. Idque utrinque
 " multotiès comprobavi, atque hinc tam *Apogæum* quam
 " SOLIS *Excentricitatem*, hisce Temporibus correspondentia,
 " Geometricè deduxi; in quorum *utroque* evidens Error
 " tam *Alphonsinis* quam *Copernico* irrepfit, adeo ut *Apogæum*
 " ternis proximè *Solis* Gradibus, *Copernicos* antevertat Nu-
 " meros; & *Excentricitas* sit *Partium 2*; fermè, qualium
 " *Semidiameter* fuit 60: ubi apud *Copernicum* penè *quarta*
 " pars *Unius* desideratur. In *simplici* etiam *Motu* SOLIS con-
 " stituendo hisce Annis, quartà quasi *unius* Gradus parte
 " Errorem committit; ac inde *Alphonsiana* cum *Copernicis*
 " collata æstimari poterunt. Hinc verò tam *Æqualium Mo-*
 " tuum quam *Prostaphæraecon Canones*, numeris exactis de-
 " duxi; ut de SOLIS *Curriculo* ad Amussim verificato, Nume-
 " risque idoneis patente, non ampliùs dubitandum sit. Atque
 " Hoc, ut in SOLE omnium primo fieret, omninò erat neces-
 " sarium; siquidem ut *Is Norma* Cœlestium Motuum existat,
 " & *Æclipticam*, ad quam reliquæ referuntur Motiones, de-
 " scribat: Cujus etiam ab *Æquatore Obliquitatem* Maximam,
 " aliam quidem deprehendi, quam *Copernicus* & ejus *Coata-*
 " nei utpote *Part. 23. Min. 31* $\frac{1}{2}$; ideoque 3 $\frac{1}{2}$ *Minutis*, illorum
 " Inventionem Majorem; præcavendo, nimirum, *Refractionem*
 " SOLIS in *Brumali Situ*, quam Illi inconsideratè neglexerunt.
 " Providimus etiam SOLI *Peculiares* Revolutionum *Can-*
 " ones; tum quoque *Declinationum* & *Adscensionum* Recta-
 " rum *novos Canones* nostris Inventis fundatos addidimus:
 " Quin & *Parallaxibus* & *Refractionibus* ejus, *Tabellis* singu-
 " laribus consuluimus.

" In LUNA etiam non minorem adhibuimus Diligentiam,
 " ut ejus Errores salvarentur qui multifariâ Perplexitate in-
 " volvuntur; nec adeo simplices sunt, five non tam facilè
 " patent, ut *Veteres* & *Copernicus* existimarunt. Nam &
 " aliam quandam habet *Ea* Inæqualitatis Insinuationem se-
 " cundum *Longitudinem*; quam ab *iis* animadversum est; nec
 " etiam Proportiones *Circuituum* satis præcisè in *Ea* denota-
 " runt:

runt: Quin & *Latitudinis maxima* alios Illa exhibet Limites
 quàm a *Ptolemao* præfiniti sunt; quem tamen hac in Parte
 nimis securè, omnes cæteri *Astronomi* postea sunt secuti:
 Imò & *hanc* ipsam inæqualiter mutat LUNA ad Differen-
 tiam *tertia* Partis unius Gradus. Nec etiam *Nodos* eos
 (ubi *Eclipticam* ejus *Via* transit) æquali Motui subjecit;
 ubi hætenus existimatum est; sed singulis *Revolutionibus*
 hinc inde nutare facit; idque sensibili Discrimine, quod a
 qualibet Parte sesquialterum Gradum nonnihil excedit.
 Hæc autem Omnia per 16 Annorum Observationes resti-
 tuimus, inter quas 18 sunt *Lunares Eclipses* accuratè cæli-
 tûs denotatæ. Neque enim *Terna* sufficiunt ad primam
 Ejus Inæqualitatem scrutandam, veluti *Ptolemaus*, *Alba-*
tegnius & *Copernicus* opinabantur: adhibitæ sunt etiam in
 Consilium 6 *Eclipsationes Solares*, quatenus *Eæ* huc quid-
 piam conducirent. Præterea LUNA in *Quadraturis* &
 maximis *Elongationibus* e medio Motu, tam circà *Apogæum*
 quam *Perigæum*, Locaque intermedia, multifariam & sæ-
 pissimè explorata; ut intricatus ejus Motus ritè constare
 posset, qui nos multorum Annorum incredibili Labore
 torfit: adinvenimus tamen demùm *Rationes* quibus ejus
 instabiles & multiformes *Divagationes* *Circulis* & *Numeris*
 paterent. Ideoque & constitutâ aliâ atque *Apparentiis*
 consonâ *Hypothesi*, *Numeros* tam æqualium quam inæ-
 qualium *Motuum*, non solum in *Longitudine* sed & *Latitu-*
dine, adaptavimus; & *Parallaxibus* ejus prospeximus aliter,
 quàm a *Ptolemao* & *Copernico* factitatum est, prout Expe-
 rientia ipsi *Hypothesi* consentiens requirebat: nec etiam
Refractionum Lunarium Curam omisimus, quum sine *his*
 cætera non exactè dignoscantur. Quæ omnia & nonnulla
 alia *Lunares Apparentias* concernentia, in *Canones* suc-
 cinctos redacta, *Calculo* destinavimus, Motibus ejus inde
 eruendis. Quare, sic restituto utriusque *Luminaris Curri-*
culo, ut ipsis *Apparentiis* cælestibus correspondeat; tam
Eclipses Earundem, quàm cæteræ *Configurationes*, Modus
 atque Ingressus posthac rectissimè unâ constare poterint: Quod
 hætenus diu multumque desideratum fuit. Quæ verò hu-
 cusque de SOLIS & LUNÆ (quoad Motus Eorum Cælestibus
 analogos) *Restitutione* dicta sunt, Ea & his plura, *Caput*
primum Progymnasmatum nostrorum Astronomica Instau-
rationis

“ *rationis* luculenter expediet, & ibi, horum cupidus, Voti
 “ compos reddetur. Restat solummodò in Luminarium ho-
 “ rum consideratione, ut omnia pluribus Seculis adaptentur
 “ & universaliora reddantur; quod non adeo magno Negotio
 “ præstari poterit, quatenus Veterum & Antecessorum Obser-
 “ vationes, quibus inniti oportet, ritè se habent: Hanc verò
 “ pleniorè & catholicam Expositionem in *Opus Theatri*
 “ *Astronomici* reservamus.

“ Præterea STELLAS INERRANTES, sive FIXAS OMNES, quot-
 “ quot visui utcumque patent, adeoque etiam *Eas* quæ *Sexta*
 “ appellantur Magnitudinis, interim etiam accuratissimè veri-
 “ ficavimus, tam secundum *Longitudinem* quam *Latitudinem*
 “ in ipso *Minuto*, adeoque nonnunquam in ejus *Semisse*:
 “ suntque hoc modo *Millena* a nobis rectificatæ *Stella*, quum
 “ *Veteres* non nisi XXII plures numerârint, qui in rectiore
 “ *Sphæra* habitantes, ultra 200 cernere poterant quæ nobis
 “ hic semper latent; in quarum tamen locum Nos *alias minu-*
 “ *tulas* restituiimus, ab iis ob Parvitatem prætermittas. In hoc
 “ arduo Opere penè *viginti* laboravimus Annis, eò quòd
 “ variis Instrumentis rem omnem accuratè experiri voluimus.
 “ Quia verò *Minutula Stella* non nisi *Hyeme*, quum obscuræ
 “ sint Noctes & latente tunc insuper *Lunâ*, cernuntur; ideo
 “ Multorum Annorum requirebatur Expectatio antequam *hæc*
 “ debitè ac sufficienter absolvi possent; quum etiam circà ipsa
 “ *Novilunia* (quando *hæc potissimum Praxi subicere oporteat*)
 “ rarò fuerit *Serenum*. Quâ verò Ratione per *Venerem* tam
 “ *Eoam* quàm *Vespertinam*, intermediente *Sole*, in *Fixarum*
 “ (quoad Longitudines ab *Æquinoctio*) exactam Cognitionem
 “ pervenerimus, & multifariâ Id ipsum comprobaverimus
 “ (revocatis Omnibus ad eam, Numero tertiam, quæ lucidior
 “ est supra Caput, quam, datâ Operâ, pro Fundamento Reli-
 “ quarum constituimus, quum duæ Antiores minùs pateant)
 “ *Caput 2^{um} nostrorum Progymnasmatum* abundè expediet,
 “ unâque quâ Ratione alias hinc deduxerimus: & primò,
 “ quomodo triplici Ratione, per totum *Cœli Ambitum*,
 “ juxta *Zodiacum* & *Æquatorem*, selectiores quasdam *Fixas*
 “ in totius Circuli maximi exactam Completionem redegeri-
 “ mus. Animadverti etiam non tantam esse, in Earum *Lon-*
 “ *gitudinibus*, Inæqualitatis *perplexitatem*, quantam existima-
 “ vit *Copernicus*; quæ Is enim circa hæc imaginatus est, vitio
 “ Observationum.

“ Observationum & veterum & recentium irreperunt; ideo-
 “ que etiam *Æquinoctiip recessio* hisce Annis non adeo tarda
 “ est, prout Ille voluit. Neque enim, in *Centenis nunc Annis*,
 “ *Fixæ Stellæ unum Gradum* conficiunt (ut fert ejus Calculus)
 “ sed solummodò in 71 $\frac{1}{2}$. Quod & antea semper ferè, si ritè
 “ limitentur Antecessorum Observationes, facere consueve-
 “ runt, modicà saltem, & aliundè per Accidens incidente
 “ Irregularitate: ut suo Tempore, volente Numine, latius
 “ aperiemus.

“ Quin & *Fixarum Latitudines*, pro *Ecliptica Obliquitatis*
 “ *Variatione*, nonnihil alterari, Primus adinveni, atque *dicto*
 “ *Capite* variis Argumentis demonstravi: sicque satis super-
 “ que testari possumus, ipsaque Experientia summà & infalli-
 “ bili Accuratione suffragabitur, *Fixarum Loca a Nobis esse*
 “ *verificata*; adeo ut plurimas ex iis multoties, etiam diversis
 “ Instrumentis, comprobaverimus, singulis in *Unum* coinci-
 “ dentibus. Nee Mechanicè hoc Negotium sumus executi,
 “ utut *GLOBUS* maximus orichalcicus in promptu fuerit:
 “ verùm omnes *Stellas* per *Triangulorum* Rationes laboriosè
 “ in debita *Loca* redeimus; prout vel ex iis patet quæ de
 “ *CASSIOPEÆ Asterismo* (in quo nos 26 *Stellas*, duplò plures
 “ numeramus quam Veteres) circa *Finem ejusdem Capituli* ex-
 “ hibuimus; licet pluribus etiam *Triangulorum* Applicationi-
 “ bus & Ratiociniis usi fuerimus, prout *aliis* atque *aliis* *Stellis*
 “ commodius visum fuit. Si Veteres autem & Prædecessores
 “ nostri tantam adhibuissent Diligentiam in denotandis *Fixa-*
 “ *rum Locis*, nequaquam tam vitiosus fuisset Eorum *Abacus*
 “ inde ab *Hipparcho* ad nos perveniens, qui nè quidem in
 “ *Sextâ* istâ *unius Gradus Parte*, quam solummodò exhibet,
 “ ritè constat: sed & longè majorem atque Intolerabilem sæ-
 “ penumerò insinuat *Deviationem*; quod vel solæ *Intercape-*
 “ *dines Stellarum*, quæ semper invariè permanent, liquidò
 “ ostendunt; In plurimis enim *Stellis hæc* longè aliter se
 “ habent quam *Numeri Veterum* exigunt: consistere autem
 “ *Fixas omnes* in iisdem ad invicem perpetuò *Interapedinibus*,
 “ vel hæc sufficienter probant, quas *Hipparchus* & *Ptolemaus*
 “ in *Lineâ* simul esse Rectâ prodiderunt: siquidem Idipsum
 “ adhuc invariaturum permanet. Earum *Fixarum*, quarum
 “ Nos Longitudinem & Latitudinem in ipso Minuto, adeoque
 “ interdum ejus Semisse (uti dictum) redintegravimus, Ca-

“ *nonicam*

“ *nonicam Expositionem* suo Tempore ac Loco habebimus.

“ Nec solummodò circa *Longitudines & Latitudines FIXARUM* accuratè constituendas occupati fuimus, sed & in *principiis* quibusdam Fixis, numero 100, *Ascensiones rectas & Declinationes*, per *Triangulorum* Ratiocinia inde derivavimus, atque duobus Sæculis ita adaptavimus, ut singulis intermediis Annis Earum *Una* proportionabiliter satisfieri posset. *Refractionibus* insuper Stellarum peculiari *Tabellâ* subvenimus, per diutinam & multiplicem Experientiam constructâ: nisi enim hæ præcaveantur, ipsissima *fixarum LOCA*, præsertim ubi *Horizonti* in *vicinum Altitudinis* Gradum appropinquant, haberi nequeunt. Quare semper etiam in *Locis Stellarum* a nobis emendatis, *Refractionum* Insinuationi, ubi Opus fuit, providimus. Habent verò hæ *Refractiones* (ut hoc quoque obiter hic moneam) se paulò aliter in *Stellis*, quam in *Sole*; in quibus etiam, ab *iis*, quæ *Luna* ingerit, nonnihil differunt: veluti hæc a nobis jamdudum & extricata & patefacta sunt.

“ Desideratur itaque jam nihil aliud in *affixis Sideribus*, quam ut Eorum Motus universalis, omnibus mundi *Ævi Sæculis* adaptetur. Quod accuratè præstare, non foret difficile, modo *Veterum* in his Observationes nimis lato modo acceptæ fuissent. Attamen limitatione convenienti adhibitâ, & hac in parte, quoad fieri poterit, *Astronomia* Cultoribus me satisfacturum confido.

“ Optandum verò foret, ut reliquæ etiam *Stella* antiquitùs notatæ, quæ in nostro Climate non apparent, prioribus *Millenis* a me verificatis adjungerentur: tum quoque *aliæ* quas ne *Veteres* quidem in Tractu *Ægypti* habitantes cernere poterant, quæ juxta *Polum Antarcticum* extant. Nam pulcherrimas ibi quoque splendere *Stellas*, Relatione eorum, qui ultra *Æquatorem* navigarunt, accepimus. Quantum verò ad *primum* attinet, in *Ægyptum* vel similem *Africa* Situm proficiscendum foret, atque illic *Stella* quotquot exoriuntur, sedulò denotandæ. In Altero obtinendo, ad *Americam Australiorem*, vel aliam Regionem ultra *Æquatorem* novigandum est, ubi omnia *Sidera* circa *Polum Antarcticum* visuntur, atque isthic *Observationes* earum instituentur. Quare si qui Illustres & Potentes Domini in altero
“ horum

“ horum vel utroque, nostris & aliorum Desideriis subvenire
 “ non degravati fuerint, egregium fane quid præstiterint, &
 “ Eorum clarissima Nomina, omni Ævo, & grato Literatorum
 “ Animo celebranda forent; siquidem Id a Nemine hætenus
 “ quod scitur, debito modo tentatum sit, nedum absolute
 “ præstitum. Ego Instrumenta & Media huc conducentia
 “ Subministrare non detrectabo; modo sint, qui hoc procu-
 “ rare & idoneis Hominibus tam laudabili Negotio prospici-
 “ cere velint.

“ Demum, *Planetarum* reliquorum *quinque* Errores scru-
 “ tari, atque hisce excudendis subvenire, non intactum reli-
 “ quimus: Sed in hisce omnibus tam *Apogæa*, quam *Excen-*
 “ *tricitates*, tum quoque simplicem eorum *Motum* ac *Orbium*
 “ & *Circuituum* Proportiones, ita in integrum digestimus,
 “ ut Erroribus, veluti hætenus, non scateant, & in ipsis
 “ *Apogæis* aliam quandam adhuc litare *Inæqualitatem* prius
 “ non perspectam deprehendimus: tum quoque *Circuitum*
 “ illum annuum, quem *Copernicus* per motum Terræ in
 “ *Orbe* magno, *Veteres* autem secundum *Epicyclos* excude-
 “ runt, Variationi cuidam obnoxium esse perspeximus: Qui-
 “ bus omnibus, atque cæteris huc pertinentibus, peculiari
 “ quadam Hypothesi a Nobis ante 14 Annos ex ipsis *Appa-*
 “ *rentiis* adinventâ & constitutâ, consulimus; *quam* alii
 “ Quidam (*inter quos tres Viros notabiles scio*) postea pro
 “ sua Inventione sibi arrogare, & aliis venditare, nimis per-
 “ frictâ Fronte, non erubuerunt; veluti suo Tempore & Loco
 “ V. D. Occasiones horum indicabo, atque Eorum nimiam
 “ Licentiam reprimam & redarguam, atque ita se habere,
 “ adeo evidenter convincam, ut non sit sincero Judicio præ-
 “ ditis, hæsitandi aut contradicendi locus. Parcâ verò iis
 “ si ingenuè admissum falsi fuerint, & mihi mea restituerint.
 “ Ideoque a nominandis Illis nunc volens abstineo.

“ *Latitudines* quoque *Planetarum* inemendatas, prout
 “ Prædecessores nostri inde a *Ptolemæo*, non permisimus, sed
 “ iis in *quinque* etiam *Planetis* diligenter per totum Circui-
 “ tum attendentes, *Alimetas* aliosque per *Eclipticam* transitus
 “ definivimus, ut omnia ipsi *Cælo* congrua sint: in quibus
 “ evidenter animadvertimus, *TRIUM* superiorum *Planetarum*
 “ *Nodos*, five limites maximarum Latitudinum, *Apogæorum*
 “ motui non esse, conformiter obnoxios, sed alium obtinere

“ per se proprium, si modò Ea, quæ a *Ptolemao* de his tradita
 “ sunt, rectè se habent, a quo tam *Alphonsini* quam *Copernicus*
 “ sua mutuati sunt, nec ullam ex Observationibus propriis
 “ *Correktionem* adhibuerunt. Undè fit, ut *Planeta* nonnun-
 “ quam in Cælo sint *Australes*, cum Eorum numeri illos
 “ *Boreales* exhibeant, atque è contrà.

“ Restat igitur nihil aliud in *QUINQUE Errantibus Stellis*
 “ pariter exantlandum, quàm ut hæc, quæ circa Longitudines
 “ & Latitudines, atque omnia huc pertinentia, aliter se habere
 “ innotescant ac serunt usitatæ *Tabula*, quæ omnia jam ultra 25
 “ Annos (ut de 10 prioribus Annis nunc taceam) *calitus* dedu-
 “ ctis accuratis Observationibus explorata & constituta habemus;
 “ & ut in novos & competentes *Canones* redacta, Numeris ex-
 “ ponantur, quorum etiam quædam Initia & Fundamenta jam a
 “ nobis jacta sunt. Cætera per aliquot *Calculatores* non diffi-
 “ culter compleri poterint, & postea sequentium Annorum,
 “ quotquot lubuerit, *Ephimerides hinc expangi*. Idemque
 “ in *Sole* & *Luna*, quorum *Tabulas* jam in promptu habemus,
 “ præstandum; quo sic futuris Temporibus minimo Negotio
 “ probari possit, *Motus Corporum Cælestium a nobis restitutos*
 “ *ipsis Apparentiis congruere & undiquaque rectè constare*.

“ Tandem, ad omnimodam *Astronomiæ* Complexionem
 “ plurimum conduceret, non saltem *Latitudines*, sed & multò
 “ potius *Longitudines Locorum Terrestrium* ritè cognitæ
 “ habere. Qua quidem in parte nos hætenus, quantum
 “ licuit, sedulò laboravimus, & nonnulla Loca rectius ordi-
 “ nasse persuasum habemus: Verùm cum huic Negotio non
 “ sufficienter succurratur, nisi in diversis & longe distitis
 “ Locis, *Eclipses* aliquot *Lunares* pari Diligentia, quoad
 “ Temporum *Momenta*, a diversis etiam Observatoribus de-
 “ signentur. Si hac quoque in parte *Reges & Principes* aliique
 “ *illustres & potentes Viri*, in disjunctis Orbis Terreni Regio-
 “ nibus existentes, Provisionem liberalem & idoneam adhi-
 “ buerint, magnum equidem fecerint Operæ Præmium: Sicque
 “ *Astronomia*, quatenus terrestribus opus habet *Horizontum*
 “ Differentiis, consummatio evadet.

“ Porro, dum perennibus illis & *Mundo* coævis *Cæli* Cor-
 “ poribus, indefesso Studio plurimis Annis sedulò attendimus,
 “ adscititia etiam ejusdem *Ætherei Mundi* Corpora, quot-
 “ quot interea illuxerunt, non minori Diligentia perscrutati
 “ sumus:

“ fumus. Ac primùm, Novam illam, & supra modum admi-
 “ randam, *Stellam*, quæ circa finem Anni 1572, apparere
 “ cæpit, atque per 16 Menses duravit, antequam conspici
 “ planè deflitter: De illâ (*inquam*) Stella Nos, cùm adhuc
 “ duraret, *Libellum quendam* conscripsimus (veluti etiam id
 “ supra breviter innuimus) Ejusque *Apparentias* ostendimus.
 “ Post aliquot verò Annos, hanc Curam resumentes, ob mi-
 “ raculi Magnitudinem, *integrum Volumen* de Eâdem con-
 “ cinnavimus, quod *Primo Progymnasmatum Tomo*, certis de
 “ Causis ibidem patefactis, inferere lubuit: ubi non solum
 “ nostras, in stupendo hoc *Sidere*, animadversiones luculenter
 “ exhibeo, & *Geometricè* demonstro, sed aliorum insuper,
 “ quotquot de Eodem placita cognoscere & obtinere licuit,
 “ Libertate Philosophica excutio, & quatenus ipsissimæ
 “ Veritati congrua fuerint, necne, disquiro, atque in aper-
 “ tum deduco.

“ De *Cometa* quoque ingentis Apparitionis, qui *Quin-*
 “ *quennio* post infecutus est, peculiarem *Librum* adornavi-
 “ mus, in quo pariter de Eodem tam ex propriis Observa-
 “ tionibus & Decisionibus, quàm aliorum Sententiis sufficien-
 “ ter agimus, quibus *Apologias* quasdam huc Spectantes, &
 “ Negotium hoc Cometicum plenius elucidantes adjungimus:
 “ atque Id *Totam Primam Partem Secundi Tomi Progymnas-*
 “ *matum* sic adimplere volumus. In *Alterâ* circa reliquos *sex*
 “ *minores Cometas*, quos successivis aliquot Annis pari Dili-
 “ gentiâ denotavimus, imposterùm V. D. occupabimur; quæ
 “ licet necdum planè absoluta sint, præcipua tamen & magna
 “ eorum Pars, quæ Demonstrationibus inserviunt, præparata
 “ est: neque enim *perpetua* illa *Sidera* nobis Otium reli-
 “ querunt, hisce evanidis, & citò transeuntibus nimium im-
 “ morandi. Spero tamen me brevi & hanc *alteram secundi ejus*
 “ *Voluminis* partem, favente Divinâ Bonitate, completurum;
 “ in quo per omnes, quos designavi, *Cometas*, liquidò demon-
 “ strabo, in quibusdam apertiùs, quibusdam verò, prout
 “ Commoditas concessit, *eos omnes in Ætherea Mundi Re-*
 “ *gione versatos fuisse, & nequaquam Sublunari Aere, ut*
 “ *hactenus Nobis frustra tot Seculis persuasit Aristoteles, atque*
 “ *ejus Sectatores.* Cur autem in *secundo Progymnasmatum*
 “ *Tomo de Cometis* agam, antequam ad reliquos *quinque Pla-*
 “ *netas*, de quibus *Tertio* tractare animus est, me confero;

“ Rationes

“ Rationes ibidem in *Præfatione* adduco; quarum hæc præcipua est, quod ex *Cometis*, quos reverà *Æthereos* esse probo, *totum Cælum Limpidissimum & Liquidissimum esse*, nullisque duris & realibus Orbibus refertum, satis constare potest: siquidem hi alias ut plurimum observant Vias, quàm ulli *Orbes Cælestes* suppeditare possent; & per Consequens, *Hypothesin a nobis adinventam nihil absurditatis* admittere, cum nulla fiat Orbium atque Dimensionum penetratio, ubi nulli realiter dantur.

“ Atque de iis, quæ huc usque in Astronomicis partim peregrimus, partim adhuc peragenda restant, sic brevibus indicasse sufficiat; inquit hic *Astronomorum* sui Temporis facile PRINCEPS, *Nobilis noster TYCHO BRAHÈ*, ab omnibus Cælo-terrigenis honore summo perpetim colendus.

HINC AUTEM colligitur, TYCHONEM suam *Fixarum* Rectificationem incepisse, Observationibus Anno 1582 peractis: intra enim hoc Temporis Spatium, non solum Arcem *Urania* suam fuisse consummatam, verum etiam *Stellaburgum* extra Arcem ædificatum, omniaque sua *majora* Instrumenta apprime fabricata & in excelsio illo *Stellaburgo* reposita fuisse atque extructa, verisimile videtur. Et etiamsi per septem vel sex Annos præcedentes, *Planetarium* ac *Fixarum* quamplurimas, procul Dubio, fecisset Observationes, ipsius usus ac Institutis maximè accommodas, ab Anno, scilicet, 1575 exeunte vel 1576 ineunte; quum has tamen non tam accuratas ac *Indubias*, five ratas ac certissimas existimasset, ac *Illas* Anno 1582 & postea peractas, dum in *Dania* commorabat: sagacissimus igitur KEPLERUS, per intimam cum *Tychone* Consuetudinem, hac de Re certior factus, Earum tantum Observationum, 14 vel 15 nempe Annos ante *Tychonis* ex *Uraniburgo* Abitum factarum, Exemplar comparare studuit, ex quo impressa Editio erat confecta, cujusque *περὶ τὸν πόνον* in hunc usque Diem in *Dania* est conservatum.

Quemadmodum *Hipparchus* Observationibus utebatur de LUNÆ Distantiis primùm a *Sole* ac postmodum a *Stellis Fixis* eadem Vesperà, ut *Stellarum Loca* emendaret; quemque Methodo eadem sequutus est *Ptolemæus*; ita *Bernardus WALTERUS* *Planeta* 9 Distantias, five *Longitudinum* Differentias, interdum a *Sole* & a *Stellis* nocturno observando, *Fixarum Loca* decrevit, ut supra ostensum est; atque hac in Re *Walterum* imitatus

imitatus est Nobilis *Danus*, qui Mensibus *Februario* & *Martio* Anni 1582, *VENERIS* Distantias observabat a *SOLE*, ac postmodum a *TAURI Oculo* meridionali, a *CASTORIS Calce* & *POLLUCIS Capite*; ac Vesperī, harum singularum Stellarum rectam Adscensionem determinavit, Rationem, scilicet, habendo pro admittā, sive ab Eo præsuppositā, tum *Solis* tum *Veneris Parallaxi*, nullam verò Rationem fecit pro istarum Distantiarum *Contractione* per *Refractiones*; vel quia tunc Temporis, forsā, in ejus Mentem non venerant, vel nullas fecerat Observationes ad Earum *Mensuras* inveniendas; nullas enim in ejus *Historia Cœlesti*, usquedum *Solstitium Æstivum* Anni 1585 reperio; istius autem Anni Residuo magnam Earum suppediavit Copiam, ac si novam aliquam prosequeretur *Detectionem* sive *Inventionem*.

Porro asserit *Tycho* se usum fuisse plus Centum *VENERIS Distantiis*, interdiū sumptis, & noctū a *Stellis*, Anno 1582, ad veram *Stella lucida* in *Ariete* Rectam *Adscensionem* determinandam: nè autem Lectorem defatigaret, *Trium* tantummodò illarum inter se optimè convenientium Examen Nobis tradit, pro uniuscujusque *Parallaxi* tamen Rationem habendo; atque sic *Stella* istius Rectam Adscensionem pro Anno 1585 computat fore 26°, 00', 32".

Postquam autem *Has* aliis suis Observationibus non tam pro Voto suo convenientes vidisset, *duodecim* Paria examinavit Observationum, diversis Anni Tempestatibus factarum, quando nempe *Solis Altitudines*, erant eadem & consequenter ejusdem *Parallaxes* ac *Refractiones*, inter se congruebant *Æquales*; atque sic Neutrius Ratione habitā, Rectam istius *Stella* Adscensionem, fermè sicut antea, reperit 26°, 00', 30": ex harum Observationum Unaquaque suas invenit Determinationes hac Methodo diversas fore aliquandò per 15' vel 16' *Minuta*; & equidem aliter se habere nequibant: semper enim *Solis Locum* (qui in omnibus suis *Collationibus* est Ingrediens principale) a Tabulis assumit suis propriis, in quibus derivandis & formandis (ex ipsiusmet duntaxat Observationibus) *Solis Parallaxin Horizontalem* præsupposuerat fuisse 3' *Minuta*; quanquam *Martis* in φ ad *Solem*, & *Lunarium Dichotomiarum*, Observationes, eandem *Solis Parallaxin* vix esse perceptibilem permittunt; adeo ut nostri Astronomi. & *Britanni* & *Gallici* illam nihil ampliùs fore quam 10" computant Secunda.

Varias autem Observationes, circa *Æquinoctium* Vernale ac Autumnale factas, inter se conferendo, Stellarum *Rectas Adscensionis*, quibusdam Observationibus, ultra $\frac{1}{2}$ Gradus, invenit *Tycho*, diversas five discrepantes ab iis quas aliis Observationibus reperisset.

• *Ptolemaeus* Refractionum ignarus quum esset, ideo forsitan maximas *Orbitæ Solaris* Equationes nimis fecit amplas, per unius Gradus quasi Semissem : & *Tycho* Parallaxin concedendo vel supponendo nimis amplam, Eas quoque nimis amplas fecit per γ' quasi Minuta ; ac proinde sua *Solis* Loca in *Æquinoctiis Vernalibus* tantò provectora, & in *Autumnalibus* cuncta-bundiora five tardiora : ut de sua nimis amplâ *Latitudine*, per unum quasi Minutum, nihil dicam ; nec de *Eclipticæ* Obliquitate, quam nimis latam exaravit per Minuta $2\frac{1}{2}$ pravo, scilicet, usu, five Applicatione sinistra, tum *Refractionum* tum *Parallaxium* ; quia forsan De his, Occasione magis peculiari, Nobis erit dicendum.

Tycho autem, Stellæ in *Ariete* lucidæ Adscensione Rectâ huc usque inventâ, duorum, duntaxat, Dierum *Observationes* simul comparando (appropinquante, nimirum, *Vernali* *Æquinoctio* vel *Autumnali*, aut aliis Tempestatibus, quum SOL in iisdem versabatur Altitudinibus) Eas quandoque magis quandoque minus a se invicem discrepantes reperit : Mediâ igitur omnium suarum Collationum sumptâ, Stellæ in *Ariete* lucidæ Rectam Adscensionem eandem determinat, sicut a se antea repertam, viz. 26° , $00'$, $30''$.

atque Hæc est *Tychonis*

Determinatio Fundamentalis.

Tunc autem pergens, sex vel septem Stellarum circumcircâ Cælum sibi mutuò succedanearum sumit Distantias *intermutuales*, suo Sextante observatas ; atque ab hisce Distantiis cum istarum Stellarum observatis Declinationibus, *Differentiam* computat Rectarum Adscensionum, quas reperit exactè conficere Gradus 360 : & inde tum suorum Instrumentorum Habilitatem five Aptitudinem decrevit, tum suarum Observationum *Exactitudinem*.

Duobus vel tribus Speciminibus in hunc Modum formatis,

Prolegomena
tum Volumine
1^o. pag. 232.

quorum Unumquodque 6 vel 7 vel 8 constabat Stellis, pergit, atque *Tabulam* Nobis tradit, 21 *Fixarum* eminentium Rectas Adscensionis, Declinationes

nationes Longitudines & Latitudines exhibentem, ad usque Finem Anni 1585 emendatam; cujus ope tum *aliarum Stellarum*, tum *Planetarum Loca*, vel ab ipsius præteritis, vel futuris Earum Observationibus, derivanda forent.

Illustrissimus Princeps GULIELMUS *Hessia* LANDTGRAVIUS 24 *Fixarum* eminentium *Loca*, ex Globo suo transcripta, Tychoni impertiverat; in quem *Globum*, secundum Earum observatas *Altitudines Meridionales*, *Distantiasque Intermutuales*, *Eas* *Stellas* aptè disposuerat ipse LANDTGRAVIUS; ut a Tychonis Epistolâ ad præfatum *Principem*, 18^{to} *Januarii* 1587 scriptâ, planè apparet: Hic enim *Princeps* in prioribus Literis a *Tychone* postulaverat, ut istarum *Fixarum Loca* (sive *Longitudines & Latitudines*) a suis Observationibus *Landtgravianis* computanda sibi mitteret; Cui morem gerit *Nobilis Dams*, additque 52 *Fixarum* eminentium *Longitudines & Latitudines* a suis propriis Observationibus determinatas: ex quo *Longitudines Landtgravianas* fuisse per 5' vel 6' *Minuta* istis *Nobilis Dani* *Longitudinibus* provectiores, liquidò constat: atque quum hi sint *primi Catalogi* quos uspiam reperimus post istos *Arabum* ac *Uleg Bieg* sive OLEG BEG (quorum *Ἀνόμενα* jam antea tradidi) *Eos* idcirco hic transcribere, si non necessarium, utile tamen *Quid*, sum opinatus, viz. ex ipsius *Epistolis*, pag. 49, 54, & 55. & in pagina nostra proximo sequente.



Collatio

LOCORUM QUORUNDAM INNERRANTIUM STELLARUM
ex Observationibus

Illustrissimi Principis WILHELMI LANDTGRAVII HASSLÆ, &c.
qualia tum per Iphius Globum, tum etiam ex *Supputatione*
proveniunt, idque *Præsuppositis* iisdem utrobique datis, *De-*
clinatione Part. 23. Min. 30. *Altitudine Poli Cassellinâ* P. 51, 120,
& pro Fundamento assumptâ *Ascensione Rectâ Aldeb.* P. 63, 110.

NOMINA STELLARUM XXIV. Anno 1587.	Ex Globo Illustrissimi Principis WILHELMI HESSE LANDT- GRAVII.		Supputatione ex Ca- none Sinuum.	
	Longitudo	Latitudo	Longitudo	Latitudo
	S. G. M.	G. M.	S. G. M.	G. M.
Primo Arietis	Υ 27 31	7 11 S	Υ 27 30	7 8½ S
Caput Andromæ	8 40	25 46	8 39½	25 41½
Tertia Arietis	8 2 0	10 0	8 1 58½	9 57
Oculus Tauri	II 4 9	5 27 M	II 4 6	5 28 M
Sinister Pes Orionis	11 18	31 10	11 12	31 9
Dexter Hum. Orionis	23 7	16 0	23 5	16 3½
Canis Major	8 30	39 30	8 28	39 28
Sup. Caput Geminorum	14 32	10 10 S	14 33½	10 6½ S
Infer. Caput Geminorum	17 32	6 41	17 35	6 42
Canis Minor	20 10	15 50 M	20 11	15 52½ M
Præsepe Caneri	1 37	1 20 S	1 37	1 16 S
Lucid. Hydræ	21 35	22 20 M	21 38	22 20 M
Cervix Leonis	23 50	9 0 S	23 45	8 54 S
Cor Leonis	24 8	0 32	24 11	0 32
Dorsum Leonis	5 35	14 25	5 36½	14 25
Cauda Leonis	15 55	12 23	16 0	12 24½
Spica Virginis	18 10	1 50 M	18 9	1 55½ M
Arcturus	18 30	31 10 S	18 35½	31 7½ S
Bor. Lænx Libræ	13 40	8 46	13 41	8 38½
Cor Scorpii	4 8	4 19 M	4 5	4 25 M
Caput Ophiuchi	16 50	36 6 S	16 46	36 0 S
Aquila	26 0	29 25	26 3	29 21
Cauda Cygni	29 40	59 58	29 46	59 54
Scap. Pegasi	17 52	19 31	17 51	19 24½

LONGITUDINES

LONGITUDINES & LATITUDINES aliquot *Affixarum Stellarum*
ad Initium Anni 1587, ex Observationibus accuratis, per In-
strumenta Astronomica TYCHONIS BRAHE verificatæ.

Adjunctis etiam ALPHONSINIS & COPERNIANIS
Earundem *Locis*.

NOMINA STELLARUM. LII.	Observationes TYCHONICÆ.		Calculus			
	Longitudo		ALPHONSINUS.		COPERNIANUS.	
	P. M.	P. M.	Longitudo P. M.	Latitudo P. M.	Longitudo P. M.	Latitudo P. M.
Prima Arietis ———	T 27 25	7. 8½ S	T 27 5	7 20 B	T 27 57½	7 20 B
Secunda Arietis ———	28 11	8 29	28 5	8 20	28 57	8 20
Tertia & Lucida Arietis —	8 1 54	9 57	8 1 5	10 0	8 1 42	10 0
Lucidior Pleiad. ———	24 15	4 0	24 5	5 20	24 57	5 20
Or Tauri prima Sicular. —	II 0 1	5 47 M	29 25	5 45 M	29 57	5 45 M
Secunda Sicular. ———	1 5	4 3	II 0 45	4 15	II 1 37	4 15
Borealis Oculus Tauri ———	2 42	2 37	2 15	3 0	3 7	3 0
Quarta Sicularum ———	2 11	5 53	1 15	5 50	2 7	5 50
Austr. Oculus Tauri ———	4 1	5 30½	3 5	5 10	3 57	5 10
Boreale Cornu Tauri ———	16 47½	5 21 B	16 5	5 0 B	16 57	5 0 B
Austr. Cornu Tauri ———	29 0	2 15 M	17 35	2 30 M	18 27	2 30 M
Calx Pedis Geminorum —	29 31	0 53	28 35	1 15	29 27	1 15
Superius Caput Geminorum	514 29½	10 2 B	513 45	9 30	514 37	9 30 B
Inferius Caput Geminorum	17 31	6 38	17 5	6 15 E	17 47	6 15
Cebæ Bor. Cancr. ———	9 0 34	10 22	28 45	11 50	29 37	11 50
Prosepe Cancr. ———	1 34	1 14	9 0 45	0 40	9 1 37	0 40
Astellus Bor. ———	1 49	3 8	0 45	2 40	1 37	2 40
Astellus Austr. ———	3 01	0 3	1 45	0 10 M	2 37	0 10
Cebæ Austr. Cancr. ———	7 52	5 7½ M	6 55	5 30	7 47	5 30
Cor Leonis ———	24 6	0 27 B	22 55	0 10 B	23 47	0 10 B
Media Cervicis Leonis —	23 47	8 47	22 35	8 30	23 27	8 30
Supr. in Coxa Leonis ———	15 28	14 18	14 35	13 40	15 27	13 40
Cauda Leonis ———	15 51½	12 19	14 55	11 50	15 47	11 50
Spica Virginis ———	212 4	1 52 M	217 5	2 0 M	217 57	2 0 M
Vindemiator ———	4 12	16 16 B	3 35	15 10 B	3 27	15 10 B
Australis Lanx Libræ ———	III 9 18	0 26	III 8 25	0 40	III 9 17	0 40
Borealis Lanx Libræ ———	13 36	8 36	12 35	8 30	13 27	8 30
Cor Scorpionis ———	I 4 1	4 27 M	I 3 5	4 0 M	I 3 57	4 0 M
Superius Cornu Capricorni	W 28 51	7 3 B	W 27 45	7 20 B	W 28 37	7 20 B
Inferius Cornu Capricorni	28 18½	4 42	27 45	5 0	28 37	5 0
Lucidior Cauda Capricorni	2217 40	2 28 M	2216 45	2 0 M	2217 37	2 0 M
Sinister Hum. Aquarii ———	17 39	8 41 B	16 55	8 50 S	17 57	8 50 S
Dexter Hum. Aquarii ———	27 36	10 42	26 45	11 0	27 37	11 0
De Piscis Austr. ———	X 12 50	9 4	X 12 5	9 15	X 12 57	9 15
Mand. Piscis Austr. ———	15 37	7 18½	14 35	7 30 B	15 27	7 30 B
Pedus Piscis Austr. ———	17 18½	4 27	16 25	4 30	17 17	4 30

NOMINA STELLARUM. LII.	Observationes TYCHONICÆ.		Calculus			
	Longitudo		ALPHONSINUS.		COPERNIANUS.	
	P. M.	P. M.	Longitudo	Latitudo	Longitudo	Latitudo
	P. M.	P. M.	P. M.	P. M.	P. M.	P. M.
<i>Extr. Ale Pegasi</i> ———	Υ 3 25	12 35 B	T 2 35	12 30 S	Υ 3 27	12 30 S
<i>Prima Ale Pegasi</i> ———	Η 17 43½	19 25	Η 17 5	19 40	Η 17 57	19 40
<i>Or Pegasi</i> ———	☿ 26 9	22 8½	☿ 25 45	21 30	☿ 26 37	21 30
<i>Caput Herculis</i> ———	Γ 10 20	37 22	Γ 8 5	37 30	Γ 8 57	37 30
<i>Caput Ophiuchi</i> ———	16 37½	35 57	15 15	36 0	16 7	36 0
<i>Lucida Vulvris</i> ———	☿ 25 57	29 21	☿ 24 15	29 10	☿ 25 7	29 10
<i>Manus Antinoi</i> ———	29 9½	18 48	29 5	19 10	☿ 0 17	19 10
<i>Pes antec. Canis Major.</i>	☿ 1 27	41 18 M	☿ 1 25	41 20 M	☿ 2 17	41 20 M
<i>Canis Major</i> ———	8 22½	39 31	8 5	39 10	8 57	39 10
<i>Canis Minor</i> ———	20 7	15 57	19 35	16 10	20 27	16 10
<i>Sinist. Pes Orionis</i> ———	II 11 5	31 11	II 9 35	31 30	II 10 27	31 30
<i>Sinist. Hum. Orionis</i> ———	15 11	16 53	14 45	17 30	15 37	17 30
<i>Dexter Hum. Orionis</i> ———	23 1	16 6½	22 25	17 0	23 17	17 0
<i>Capella</i> ———	16 5	22 51 B	15 25	22 30 B	16 17	22 30 B
<i>Lucida Hydræ</i> ———	Ω 21 34	22 24 M	Ω 20 25	20 30 M	Ω 21 17	20 30 M
<i>Arcturus</i> ———	☿ 18 27	31 2 B	☿ 17 25	31 20 B	☿ 18 17	31 40 B

Per Annos autem 14, inter Annum, scilicet, 1587 ineuntem, Annumque 1601 ineuntem, elapsos, *Tycho* Fixarum Motum concedit esse propemodum 12 Minuta, quæ Stellarum in hocce *Catalogo* Locis addita, Earundem dant Loca in ipsius *Catalogo* in Libro suorum *Progymnasmatum* impresso, cuius, ut exinde liquido constat, hic *parvus* Catalogus est quasi *Parens* & Fundamen.

Lucius Barretius quum Anni 1593 Observationes deesse in *TYCHONIS Historia Cælesti* vidisset; Stellarumque Longitudines in *Catalogo Landtgraviano* fuisse 5 vel 6 Minutis proVectiores quàm in isto *Tychonis*; ad hunc Defectum implendum & ad spatia ista vacua succenturianda, Animum sagacissimè appulit; atque hic ad Annum 1593 sua inseruit Addenda, ut cum *Tychonis* Observationibus quadrarent: Quod quidem hac Ratione sat scitè factum fuit; ubi *Jesuita*, etiam si Multum Ingenii, parum tamen ostendat Sinceritatis: constat enim *Tychonem* Longitudines *Landtgravianas*, sive istas a suis Observationibus in *Landtgravii* plium derivatas, cum suis propriis comparare *Longitudinibus*, quas ad Anni 1587 Initium determinat; atque hoc Modo Differentias 5 vel 6 Minutis constare reperit; qua de Re, quicumque Illas simul conferre

ferre voluerit, certior factus erit. Atque *Curtio* Hoc non fuerat ignotum qui *Landtgravii* Catalogum non fuisse pro Anno 1593 exaratum, verum cum hoc Anno optime quadrare, asserit; (ejus verba sunt, *In hunc ferè Annum competens*) quoniam concedendo Catalogum illum in hunc ferè Annum competere, illum cum isto *Tychonis* congruere comparebit: magni sui Auctoris partibus nimium quidem favet quanquam hujusmodi Artes non ipsi placerent *Tychoni*, nec iidem Posterorum Gratias mereatur *Curtius*.

Porro observandum, quod etsi hujusce Catalogi *Longitudines*, a *Curtio* in Lucem editæ, cum istis congruant computatis a *Tychone*, vel ab ejus Domesticis, sive *Studiosis*, istius tamen *Latitudines* cum *Tychonicis* non congruunt, imò sunt aliquando peiores, interdum verò cum istis quadrare conficiantur; sicut alicui Has istis conferenti facile apparebit. Undè concludere licet quod seu *Rothmannus*, sive *Justus Byrgius*, vel post Eos quispiam, hunc pusillum ac deficientem Catalogum composuerit, de *Tychonis* Præstationibus melius quàm de suis propriis existimavit; ideoque, ubi Res absque nimio Labore fuit peragenda, suas reddebat Determinationes easdem, sive cum istis *Tychonis* exactè congruentes: quanquam generosus *Tycho* de tali Fraude teneri noluerit, qui in suis *Progymnasmatibus* Stellarum 770 fixarum *Loca* a propriis suis Observationibus determinata Nobis exhibuit; sicut *Longomontani* Catalogus eundem exhibet Stellarum numerum in ejus *Astronomia Danica*, HAFNIÆ Anno 1620, Typis excusâ. *Tycho*, autem, in suâ ad *Rothmannum* Epistola 14^{ta} *Januarii* Anno 1595 scriptâ, se 1000 circiter *Stellas* rectificasse asserit; atque *Keplerus* in *Tabulis* suis *Rudolphinis* (quas Anno 1627 Typis mandavit) *Loca* tradit Stellarum 1050, quæ numerum in *Progymnasmatum* Catalogo prædictum per 280 excedunt, & quæ *Loca* 280 vel in *Tychonis* Manuscriptis *Keplerum* reperisse, vel ab Eiusdem Observationibus deduxisse, verisimile videtur.

Horizontalem SOLIS Parallaxin 3' tribus constare Minutis, & supposuit & assumpsit *Tycho*, etiamsi ex propriis ejus Observationibus illam reverà imperceptibilem esse, facile possit probari; atque ex Observationibus nostris apud Urbem *Derby*, Mense *Septembri* Anno 1672, peractis, non ultra 10" *Secunda* reperiebatur ista *Parallaxis*; simul etiam *Refractiones* in SOLIS Altitudinibus Meridionalibus ad Tropicum *hybernium* admittit nimis

nimis amplas, & exindè maximam *Ecliptica* Obliquitatem definit esse $23^{\circ}, 31', 30''$, quæ quidem per $2', 30''$, amplior est quàm a suis propriis Observationibus verisque Refractionibus admitti potest: maxima enim *Ecliptica* obliquitas, secundum Observationes *Grenovicenses* ac etiam *Lutetianas* $23^{\circ}, 29'$, non excedit; ex quo sequitur *Stellas* istas *Coluro Solstitiali* insitas, vel adjacentes, in *Tychonis* Catalogis, suas habere *Latitudines* per $2', 30''$, erroneas, omnesque reliquas *Stellas* *Latitudines* habere minùs erroneas, prout ab isto *Coluro* sunt remotiores.

Et quia tam amplam *SOLIS Parallaxin* assumpserit *Tycho*, Refractionesque nimis amplas in *Solis* Altitudinibus, quùm *Sol* nempe minùs 10 vel 12 Gradibus erat altus, exindè procul Dubio tantæ Differentiæ ortum præcipuè duxerunt quas hodie reperimus in *Recla* Adscensione *Stellæ* in *Ariete Lucida*, 27 diversis Observationibus determinatâ: sed quum Eas limato Judicio contulerit, ac Differentias hinc indè interpretaverit, Veritatem forsân quoque elicit sive detegit; adeo ut in ejus Determinationibus de istius *STELLÆ Reclæ* Adscensione, pro istis, duntaxat, Temporibus, acquiescere tutò possimus. Veruntamen ejus *Longitudines* & *Latitudines* adhuc Incertæ sive dubiæ remanent semperque remanebunt, ob *Collimationis* Difficultatem per *nuda* Dioptra in suorum Instrumentorum *Indicibus* collocata; quæ quidem Causa fuit ut in *Distantiis* suis supputandis in Errorem abductus fuerit aliquando per 2, 3, 4, vel 5 *Minuta*; sicut certò patebit, *Tychonis* Distantias conferendo cum earundem Stellarum Distantiis apud *Greenwich* observatis, *Sextante* meo cui Dioptra *Telescopica* affixa sunt; hoc enim modo Collimatio facilis redditur certa & indubia.

Nec non verisimile videtur, Difficultatem reducendi *Sextantis Planum* ad duarum Stellarum observandarum *Planum*, in *Tychonis* Mensuris & operationibus, Causam extitisse Errorum qui in Observationibus apud *Greenwich* peractis facillimè evitabantur; Instrumentum, videlicet, collocando super *Axin*, Telluris *Axi* parallelum, ejusque *Planum*, in aliquod *Planum* per *Stellas* observandas transiens, *Cochleis* perennibus accommodando, summo cum Facilitate ac Certitudine.

Quicumque

Quicumque Errorum a *Tychone* admissorum, in Distantiis *Fixarum* ab Eo observatis, certior esse velit, *celeberrimi* *HæVELII* *Machina Cœlestis* evolvat *Partem priorem*; ubi ostendit *Nobilem Danum*, in primæ Magnitudinis Stellarum Distantiis, *trium* Minutorum Errores admisisse, quos equidem soli *Collimationis* Difficultati adscribere possum.

Tandem *Nobilis* *TYCHO* Fatis *Pragæ* concessit (ut supra ex *Thuano* memoratur) Anno 1601, 9 *Calendas Novembres* Stilo novo, quum Vitæ Annos 54, Menses 9 & Dies 19 (*proh. Dolor!*) tantum egisset, postquam in Re Astronomica per Annos 38 plurimum fuit versatus, a 16^o scilicet *Ætatis* suæ Anno.

Sed Anno post hujus *Astronomorum* PRINCIPIS obitum quasi *septimo*, *TELESCOPIUM*, Instrumentum apprimè necessari-um, *DEI* optimi maximi in Gentem Astronomicam benignâ Providentiâ, fuit inventum, vel potius repertum; ut ex clarissimi *Cartesii* verbis concludere licet. “ Sed hoc

“ INVENTUM, ait, adeo utile & mirandum, non Diogenes Cyp.
1^{um} de Lumine,
pag. 1.

“ sine aliquo Scientiarum nostrarum opprobrio,

“ vagis Experimentis & *Casui fortuito* debemus: ante Annos

“ circiter *Triginta*, quidam *Jacobus Metius* vixit, *Alcmariæ*

“ (quæ Civitas est *Hollandiæ*) natus; Homo humaniorum

“ Artium prorsus expers; licet *Patrem* & *Fratrem* *Matheſios*

“ Cultores habuerit. Hujus summa voluptas erat *Specula* &

“ *Vitra uskoria* formare, nonnulla etiam Hyeme componens

“ ex *Glaciæ*; quæ Materies, Experimentiâ Teste, non omnino

“ ad id inepta est. Quum igitur hac Occasione, *Multa*,

“ eaque variæ Formæ *Vitra* ad Manum haberet, *prospero*

“ *quodam Fato*, duo simul Oculo objecit; quorum *Alterum*,

“ Medium paulò crassius habebat quàm extremitates, *Alterum*,

“ vice versâ, Extremitates quàm Medium multò tumidiore;

“ & adeo feliciter *Illa* duabus *Tibi* Extremitatibus applicuit,

“ ut *primum*, de quo loquimur, *Telescopium* inde extiterit:

“ atque ad *hujus unius* Normam, *Omnia* deinceps, quæ in

“ hunc usque Diem habuimus, elaborata sunt; neque adhuc,

“ quod sciam, *ullus* extitit qui demonstraverit sufficienter

“ *quam Figuram* hac *Vitra* exigant. Licet enim exinde multa

“ egregia Ingenia fuerint quæ hanc Materiam non parùm ex-

“ coluere, atque eâ Occasione, *Varia* in *Opticis* invenere

“ præstantiora iis quæ a Majoribus habemus; tamen quoniam

“ *operosiora Inventæ*, rarò simul ac *notæ* sunt, summi *Per-*

“ *fectionis* Gradum adipiscuntur; fatis multæ difficultates hic
 “ reliquæ sunt, ut scribendi Materiam mihi suppedient. Hæc
Cartesius. Veruntamen si Vir hic eximius in hunc usque
 nostrum Diem inter Vivos remanisset, *Organa Telescopica*
 eorumque *Vitra* vidisset ad summum fermè *Perfectionis* Gra-
 dum provecta, *Eruditorum*, duntaxat, studio & *Artificum*
 Dexteritate ac industria.

KEPLERUS, emunctæ naris Homo, Nobis ostendit, quòd Luminis *Radii* a Medio rariori, sicut noster est *Aer*, in densius, ut in *Aquam* aut *Vitrum*, transeuntes, ad *Perpendicularum* refringantur; & quod *Secantes* Complementorum Angulorum *Inclinationis*, *Secan-*
tibus Complementorum Angulorum *Refractorum*, sive *Refrac-*
tionis, proportionales sint; *Coscantes* autem quorumcunque Angulorum sunt ad se invicem ut eorundem Angulorum *Sinus*: ac propterea CARTESIUS, limato cum Iudicio, mentionem omisit *Secantium* &c. & in eorum Vicem simplicius proposuit, *Sinus Angulorum Inclinationis*, *Angulorum Refractionum Sini-*
bz proportionales.

In suis *Peralipo-*
menis ad
 Anno 1604 editis

CARTESII *Principia* & *Dioptrice* primùm Typis mandabantur Anno 1637 ut patet ex *Francorum* Regis LUDOVICI XIII. pro istis imprimendis ac *Edendis* Privilegio, dato 4^{to} die *Mensis* Maii *ejusdem* Anni: sed *ejus* *Opusculis*, primò quidem Gallicè conscriptis, eodem vel sequenti Anno in Manus Nostratis Domini GULIELMI GASCOIGNE incidentibus, Magnus Ille *Mechanico-Astronomus* ad *Telescopia*, alio ac diverso More consideranda & tractanda, Animum appulit, quàm ab Ullo hætenus considerata ac tractata fuissent: *Radios* enim *Luminis*, a duabus cujuscunque Objecti Extremitatibus venientes, ad omnia *Vitri* *objectivi* puncta, investigans ille, extemplò invenit, quòd post *Radiorum* per Illud Transitum, *Imaginem* depingebant Objecti, sive delineabant, in distinctâ *Telescopii* *Basi*; & quòd *Linea* ab Imaginis duabus Extremitatibus ad *Vitri* *Polum* ductæ, eundem efficiebant ibidem Angulum, quem *duæ Lineæ*, ab eodem *Polo* ad Objecti duas Extremitates ductæ, formabant ad idem *Punctum* in aperto *Aere*.

Porrò & *Gascognius* animadvertens, quòd omnes *Cochlea* benè fabricatæ striæ essent similes & æqualis Crassitie; idcirco Cochlearum *paria* Tubi sui Lateribus sic inferenda machinatus est, ut Earum Extremitates, ope Revolutionum *Indicis* cu-

jusdam,

fuldam, facile ac æquabiliter sibi mutud appropinquarent & a seinvicem recederent: tunc verò *Vitri* sui *Objectivi* Distantiam a distincta *Basi* in Recipiente, inveniens, *Angulos subtensos*, per quemvis *Revolutionum* Numerum, vel per *Cochleæ* suæ strias, facillimè determinare potuit, & etiam partes *Centesimas* cujusvis *Revolutionis* in *Basi distinctâ*: atque hoc modo SOLIS LUNÆQUE Diametros, ac Stellarum in *Pleiadibus* Distantias Intermutuales, *primo Tempore* mensurabat, circa, nimirum, *Augusti* Mensis Anno 1640; licet enim hæc Machinationes Anno præcedenti, aut ampliùs antea, excogitasset, in Ordinem tamen illas redigere citiùs non potuerat.

Gascognius Sextantem *ferreum*, pro Distantiis in Cælo mensurandis, sibi fabricavit, cujus *Radius* (ut nunc maximè memini) erat 5 pedes longus, nullus autem *Limbus Æneus* nec *Dioptra Telescopica* Ei affigebantur; & exindè colligo Eum *Bello Civili* præpeditum fuisse, nè illud Organum exadè perficeret: nam in Motibus *Britannicis* generosus hic Vir a partibus *Regiis* stetit, ac in Prælio apud *Marston Moor* propè Civitatem *Eboracum* viriliter dimicans occubuit, (2^{do} Julii 1644) magnâ, cheu, *Astronomia Mechanica* Jaëturâ!

Veruntamen RICHARDUS TOWNLEIUS de *Townley* in agro *Lancastriensi* *Armiger*, Mathesios perquam peritus, *Gascognii* Scripta & Inventa feliciter nactus est, ejusque *Machinam* provexit & complevit, eique *Unam* addidit *Cochleam* ad idem præstandum quod *Gascognius* duabus præstiterat. Hac de Re aliàs proluxiùs Differendi Ansa mihi fuit; proindè impressentiarum tantum dicam, quòd quum apud *Townley* fortuitò effem, Mense *Septembri* Anno 1672, dictus Dominus *Townleius* Epistolas Domini *Gascoigne* ad Dominum *Gulielmum Crabtree*, alium *Mathesios* peritissimum virum, mutud mihi dedit, unâ cum ejusdem *Crabtree* scriptis Responsionibus; ex quibus omnes tam *Gascognii* quam *Crabtree* Observationes transcripsi; Quæ omnes Typis mandatæ sunt in Exordio *Voluminis primi Observationum mearum* apud *Derby*, Organo *Townleiano*, & hic apud *Greenwich*, meo proprio *Sextante*, peractarum.

RICCIOLUS nobis præbet *Fixarum* Catalogum, quem in *Tres* distinguit *Classes*: *FIXÆ* ad *primam* Classem spectantes, 101 Nu-

Astronom. Reformat.
a pagina 263, ad Pa-
ginam 279.

mero

mero, a Scipso & F. M. Grimaldo, in Horizonte Bononia, fuerè observatæ, earumque Longitudines & Latitudines ex propriis suis Observationibus deductas exhibet; PLEIADIBUS tamen a Vincentio Muto & Michaelæ Vincentio Langreno observatis: hæc primo Certitudinis gradu indubias esse existimat, ac in Earum Longitudinibus & Latitudinibus determinandis, Eclipticæ Obliquitatem semper supponit esse 23°, 30'.

Secunda Classis ex Kepleri Catalogo Tychoniano, in Tabulis Rudolphinis contento, conflatur; istius autem Numeros castigat, prout Differentiæ inter suos primæ Classis numeros istosque Tychonis postulant; harumque Fixarum Tabulam nobis præbet Hevelius paginâ 135 Prodrumi sui Astronomici; atque has Ricciolus secundo Certitudinis gradu indubias esse computat.

Tertia ejus Classis eas comprehendit Stellæ quæ nec a Tychone observabantur nec a Scipso, sed ab Hipparcho ac Ptolemæo, erant-que in Vicinia quarundam Fixarum quæ vel a Tychone vel a Scipso fuerant observatæ: atque harum Numeri per Differentias inter Longitudines Ptolemaicas suasque sive Tychonicas erant castigandi. Has quidem tertio Certitudinis gradu indubias esse ducit, ab Errore tamen 10' Minutorum Eas non absolvit.

Quartam addit Classẽ, Eas nempe continentem quæ nec ab Hipparcho aut Ptolemæo (quod Sciamus) neque a Tychone, nec a Scipso erant observatæ, sed a Nautis & Naucleris; nec ad alias quam ad istas Constellationes novas prorsus a Nautis observatas verè spectant: quarum Longitudinem ad Finem Anni 1700 tantummòdò reduxit, Rudolphina scilicet Longitudini (sive Nautarum) addendo Motum Annorum 100, sive 1°, 24', 27". Earum autem Latitudinem prorsus immutatam transcripsit ex Rudolphino Catalogo. Has in quarto Certitudinis gradu censet, deductas, nimirum a Distantiis, mensuratis spectato Radio sive Baculo Astronomico (anglicè FORESTAFF) quo Naucleri utuntur & quem expertus est Ricciolus Minutorum aliquot Errori obnoxium: has, inquam, Fixas non Ptolemaicas certiores existimare velit, donec alio & accuratiore modo fuerint observatæ. Adeo ut Ricciolo devinciamur, ejusque Amico celebrato, ob Stellarum 101 tantum Loca ab eis castigata. Utrum verò hæc Loca Tychonicis præstent, candidus Hevelius non

non suam fert sententiam; atque hoc solum dicam Ego, quòd nobis non liquet, num *Riccioli* Instrumenta vel ejus *observandi* Methodus, Istitis Nobilis *Dani* fuerint præstantiora.

Prodrom. Astron.
pag. 135.

Nam si haud pauci Observationum *Tychonicarum* Errores ex nudorum *Dioptrorum* usu necessariè consequantur, quotcunque tunc Errata in *Tychonis* Operibus ab ista Causa oriunda, in *Hevelianis* etiam procul Dubiò notari debent, cujus *Organa Nuda* tantummodò *Dioptris* instruebantur, ejusdemque *Radii* erant cum istis *Tychonis*; at magis expedite forsan & facilius in Observationis *Planum* dirigi poterant, siue in *Planum transiens* per duas *Stellas* observandas & per *Collimatoris Oculum*.

HEVELIUS, nostrorum Observatorum accuratiorum quum esset postremus, qui *nudis* usus est *Dioptris* in *Organa* sua affixis; ideo de ejus *Instrumentis* & *Catalogo* breviter dicam; etiamsi, Ratione Temporis quo floruit, aliquantò maturius hoc videri possit.

In HEVELII Organographia, hac describuntur Instrumenta a Seipso machinata.

1. QUADRANS *Orichalcicus*, cujus *Radius* tres erat pedes longus, sed absque *Regula*, & solo *Perpendiculo* instructus.
2. SEXTANS *Orichalcicus*, cujus *Radius* tres erat pedes longus, *Regulâ* *Orichalcicâ* instructus; & *Cochleas* tres directorias habebat.
3. SEXTANS *Chalybeus*, quatuor pedes quoad *Radium* compledebatur, & a peculiari quadam *Cochled* regebatur.
4. QUADRANS *horizontalis* ligneus, quoad *Radium* quatuor Cubitorum, siue sex pedum erat: habebat *Arcum* *Orichalcicum*, *Pinnacidia*, *Tenacula*, *Sustentacula*, *Globumque* æneum cui insistebat.
5. SEXTANS MAGNUS ligneus, cujus *Radius* sex pedum longus erat, ad Modum *Sextantis Tychonici* constructus.
6. OCTANS MAGNUS ligneus, octo pedum *Radio* constabat, *Dioptras* continebat mobiles, quæ eadem ratione ac illæ in *Sextante* sunt adornatæ.
7. Tres *Quadrantes* minores *Orichalcici*, quorum *Primus* unius & dimidiū pedis ferme erat, *Alter* duorum pedum, *Tertius* unius tantum pedis *Radium* continet.

8. QUADRANS magnus AZIMUTHALIS, quinque & amplius pedes quoad Radium complectitur; *Pedestale* istius sex pedes altus erat.

9. QUADRANS magnus *Horizontalis*, æneus, volubilis, *Radius* Longitudo ad 6 $\frac{1}{2}$ pedes excurrit. *Quadrans* hic binis *Regula* *Dioptris* pro *Observationibus Solaribus*, nocte verò *Fistula* visoria ad observandas *Stellas* adornatus est.

10. SEXTANS magnus *Orichalcicus*, sex pedum & amplius *Radium* continebat. Hoc Organum ad subtiliores *Planetarum* & *Fixarum* Distantias dimetiendas *Hevelius* adhibebat.

11. OCTANS maximus *Orichalcicus*, quoad *Radium* novem fere pedes æquabat. Hoc Organum respectu *Dioptrorum* mobilium, *Divisionum* & reliqui ejus *Apparatus*, cætera *Instrumenta* antea inventa longè antecellebat.

12. SEXTANS *portatilis*, ex puro *Orichalco* confectus, quoad *Radium* quatuor pedum longus erat: ope *Sustentaculi* versatilis dirigebatur.

Hevelii priora *Instrumenta* ex *Ligno* benè præparato erant fabricata; ejus *Quadrans* & *Sextans*, quorum *Radius* sex constabant *Pedibus*, cum *Limbs* æneis, *Tractioni* ac *Usui* apprime adaptabantur; quum verò *Distortionibus* & *Contractionibus* illa proclivia fuisset animadvertisset, Eorum vice *Organâ* formavit *anea* secundum *Exemplaria Tychonica* ejusdemque *Magnitudinis*.

QUADRANS ejus *Azimuthalis*, N^o 8. quo in *Meridialibus SOLIS*, *Planetarum* & *Fixarum* *Altitudinibus* capiendis præcipue usus est, *Radium* habuit 5 & amplius pedum, atque *Circuli* *Azimuthalis Diameter* (cui infistebat *Quadrans erectus*) quatuor pedum erat. Hoc Organum PETRUS CRUGERUS, *Matheseos* Professor *Dantiscanus* celeberrimus, machinabatur Anno 1618; *Artifice* autem, Quo ad illud conficiendum usus est, moriente antequam abolveretur, Urbis *Dantiscan* *Armorio* adservabatur; ac istius Urbis *ORDINES* (quorum sumptibus fabricatum fuerat) illud *Hevelio* roganti, donò dederunt, qui ad *Umbilicum* illud perduxit: imò verò Mense *Octobri* Anno 1652 ad *Solis Stellarumque* *Altitudines Meridiales* capiendas, hocce *Instrumento* illum incepisse, illoque semper usum fuisse comperimus, ac ejus *Angustia* solâ fretum fuisse vide-

1652 MAY 21 1652 J. HEVELIUS 21 MAY 1652

tur: quanquam & *Alterum* postea machinatus est *Quadrantem*, Radius 6; pedum habentem, N^o 9. quem habemus delineatum in suæ *Organographiæ* paginâ 184, &c. ex ejus tamen *Observationum Ephemeride Hevelium* hoc altero rarissimè usum fuisse liquet; sicut nec usus est *ligneo* suo *Quadrante* (cujus Radius 6 erat pedum N^o 4.) in dictâ suæ *Organographiæ* paginâ 114 descripto, ob Rationes suprà memoratas.

Præcipuum quo usus est Instrumentum erat ejus *SEXTANS*, cujus *Radius* aliquantulò constabat ultra 6 pedes N^o 10: Totum fuit ex *Ære* conflatum hoc Organum, & a Tergo *ferreis Costis* munitum; atque *Globo* cum *Scapo* ita fuit innixum, ut ope *Funium*, *Trochlearum* & *Cochlearum* in quodvis *Planum* flecti facillimè poterat & contineri. Maxima suarum *Observationum* pars, pro *veris*, præsertim, *Stellarum* & *Planetarum Locis* decidendis, hoc Instrumento peragebatur; & ab Isto *Tychonis* in hoc solo differebat, quòd *Hevelii* Organum ex Metallo, nempe, ex *Ære* ac *Ferro* totum constabat; illud verò a *Nobili Dano* usurpatum *Dioptra*, *Regulas*, *Cylindrum* ac *Limbum* ex *Ære* quidem habebat confecta; omnes autem istius *Costæ* ex *solido Ligno* erant studiose compactæ, ac *Panno oleoso* obductæ, ut, scilicet, nec Calore nec Humiditate violarentur sive corrumperentur aut intumescerent.

Hevelio alia quædam fuere Instrumenta ejusdem cum *Tychonianis* tum Formæ tum Magnitudinis; num autem potiora, nec ne, fuerint, affirmatur erit difficile, ac proindè hac de Re quidpiam definire nequeo: videtur autem *Hevelius* Inventiones usui Aptiores excogitasse, quàm *Tychoni* unquam fuere.

Sed inter *Hevelii* Organa nullas reperimus *Armillas* quales machinatus est *Nobilis Danus*, & quibus *Stellarum Rectas Adscensionis* Earumque *Differentias* per *Observationes* determinavit: illa quidem Instrumenta multum Commodi *Tychoni* præstabant, quoniam dictas *Differentias*, ex observatis *Distantiis*, deducendi laborem Ei adimebant; qui Labor, ante *Logarithmorum* Inventionem erat & prolixus & molestus; nunc verò minori Negotio absolvitur ac majori Certitudine: adeo ut non culpandus sit *Hevelius*, quod Instrumenta minimè fabricaverit suis usibus non necessaria, quanquam *Tychoni* valdè fuerant proficua.

Hevelius

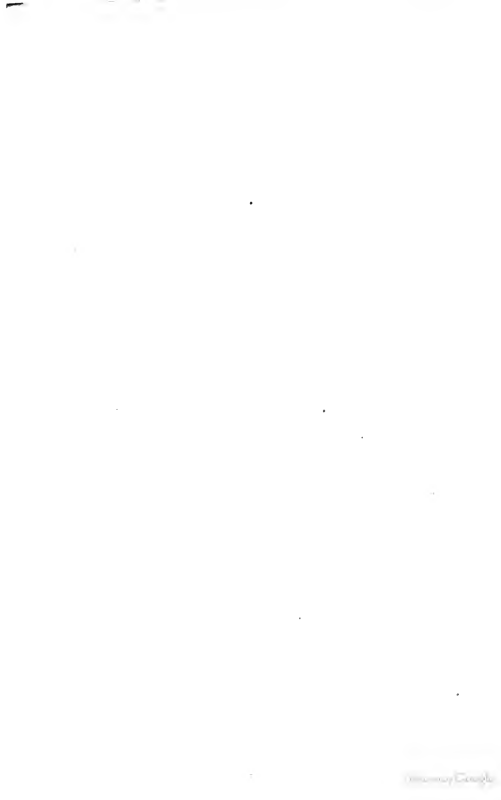
Hevelius nullas esse *Refractiões*, quum SOL ultra Gradus 45 esset altus, cum *Tychone* supponebat; quā Hypothesi *Poli* Altitudinem, apud *Dantisum*, uno penè Minuto nimis amplam computavit. *Solis* etiam Parallaxin *Horizontalem* ampliorem concessit ultra Minuti semissem quàm ex Accuratis Observationibus fulciri potest, sive colligi queat; suasque admittebat *Refractiões*, (eas, duntaxat, infra *duodecim* Altitudinis Gradus) aliquot Minutis majores quàm reverà sunt.

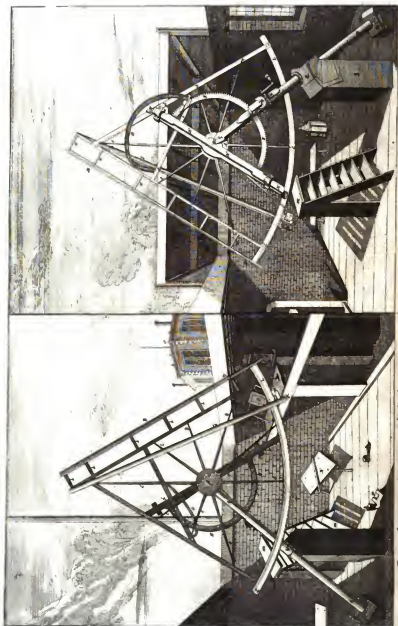
Ex hisce Principiis erroneis maximam *Ecliptica* Obliquitatem statuit fore 20°, 30', 20" id est, 1', 20" Justo ampliorem & maximam *Orbita* Terrenæ *Æquationem* 2°, 2', 8" quæ *Orbita* Terrenæ *Tychonianā* 1', 7" minor est, & 5', 48" verà major. Si verò *Tychonis* & *Hevelii* observationes *veris* castigentur *Parallaxibus* ac *Refractiōibus*, *eandem* exhibebunt *Ecliptica* obliquitatem, *easdemque* *Orbita* Terrestris *Æquationes*, quæ *Nostreis* observationibus nuper sunt detectæ.

Hevelius porro nobis refert, se *vera* Stellarum *Loca* reperisse, *Solis*, nempe, Distantias interdū a *Venere* metiendo, & noctū *Veneris* Distantias a Stellis; sed quibus usus est Observationibus, aut quas Deductiones hac in Re sive Concessiones (anglicè *Allowances*) fecerit, mihi planè incompertum est, ex ullis ejus Operibus quæ hactenùs in manus meas inciderunt: ac proindè existimarim faciliè, quòd et si Stellas in suo Catalogo contineat *Hevelius* duplo fermè plures quam *Tycho* in suis *Progymnasmatibus* rectificaverat; *Tychonis* tamen *Loca* æque accurata esse ac æque vera repertum iri, propter meas Rationes hic allatas.

Inter *Tychonem* & *Ricciolum* GASSENDUS, ob Astronomica sua observata & scripta, celeberrimus evasit: Eum autem ullis usum fuisse Organis non comperimus, præter *vulgaria Telescopia*, parvos *Quadrantes* & *Baculum* sive Radium Astronomicum (*Forestaff*) pro metiendis in Cælo Distantiis.

Hevelius præterea nobis narrat, quòd *Monocerotis* Constellationem formare ceperit *Gassendus*, ex quibusdam Stellis quas *Orionem* consequi observasset; sed quòd opus reliquerit imperfectum. *Hevelius* verò, aptis Instrumentis instructus, illud Organum ad umbilicum perduxit; & *Gassendi* Exemplum sequendo, quas in aliis Cæli Locis observavit Stellas, Constellationum huc usque delineatarum cuius non inclusas, Formis





View of the interior of the smokestack of the locomotive.

View of the interior of the smokestack of the locomotive.

Formis vel *Imaginibus* vestivit a seipso excogitatis; quod *Illi* æque ac *Ptolemao* facere licebat, illumque hæc in re imitari, Justam ac debitam, pro illius opera, sumptibus & labore præviis, Recognitionem esse censeo.

DE OMNIBUS ILLIS VIRIS hucusque egi, qui in *veris* Fixarum *Catalogis* exhibendis sudarunt; omnesque illos *Viros* per-illustres consulto prætermisi, qui in *Tabulis*, ad repræsentandos *Planetarum* Motus, formandis, operam collocarunt suam; de *Quibus*, Eorumque operibus, qui plura scire cupit, Eorum *Catalogum* consulat a *Ricciolo* traditum in *Almagesti sui Volumine primo*, Bononiæ excuso, Anno 1651.

CIRCA Autumnum Anni 1671 *Distantias* in Cælis minutas apud urbem *Derby* metiri aggressus sum, *Tubo* scilicet quindecim pedes longo; ac interdum altero dimidiæ Longitudinis *Tubo*, *Organoque Townleiano*: quibus non solum *LUNÆ Systemata* vulgò recepta, sed insuper *Fixarum* in *Catalogis Tychonianis* Loca, sapissimè deprehendi erronea ac defectiva.

Anno 1675 ineunte, quum *Londini* versabar, *Gallus* quidam LONGITUDINI detegendæ parem se prædicabat, ac ejusmodi *Data*, pro istâ inveniendâ, postulabat, quæ Istius audaciant simul & ignorantiam prodidère, viz, " 1. Annum ac Diem " observationis requirebat. 2. Duarum Stellarum Altitu- " nem & in qua Cæli Parte, *Meridiani* respectu, apparebant. " 3. Binorum *LUNÆ* Limborum Altitudinem. 4. Poli Alti- " tudinem ad Gradus usque ac Minuta. Delegati constituebantur ad propositiones ejus expendendas, & quum in Eorum numerum essem admissus, Istorum *Datorum* ei Copiam feci; quæ quidem tractare nesciebat bonus Vir, eaque asserendo esse *fictitia*, semetipsum excusabat: cui respondebam, hæc *Data* non esse *fictitia*, & quod etiamsi reverà essent, huic tamen Negotio fat benè inservirent, si, duntaxat, *Catalogi* vera *Fixarum* loca exhibentes, & *Tabula*, loca *LUNÆ* observata ad semiminutum referentes, Nobis non deessent, quibus tunc Temporis carebamus: *Tychonica* enim *Fixarum Loca*, ad 3, 4 aut 5 Minuta sapissimè errabant; & *Loca Luna*, ex optimis etiam *Tabulis* computata, ad 5, 10, 15, aliquandò ad 20 Minuta erant falsa: atque insuper, priusquam Locorum Longitudinis ex *Luna* ac *Stellarum* observationibus inveniendæ, tantoperè desideratæ, Spes nobis affulgeat, quòd *Loca Fixarum* correctâ adipisci, omninò esset necessarium, & ejusmodi *Tabulas Astronomicas*

in promptu habere, quæ veros *Lunæ* Motus intra unum sive duo Minuta præberent; & ad utraque hæc consequenda, opus esset luculentâ Observationum Cœlestium copiâ, tam ratione *Stellarum* quàm *Planetarum*: ad has autem comparandas, quod *nova* & *ampla* Organa ex solido metallo sint fabricanda, Dioptris *Telescopicis* instructa; præsertim quum maxima Errorum Pars in *Tychonis* Catalogis, procul omni dubio, orta fuerit a difficultate exactè collineandi ad Stellas per *nuda* Dioptra, quibus, nempe *nudis* Dioptris, in suis circâ Lunam Observationibus; res magis ardua continuò evasit.

CAROLUS II. *Britanniarum* REX, horum certior factus, illa certò esse peragenda Regio more dixit; ut sui nempe *Nancleri* & *Nautæ* nullâ destituerentur Ope a *Cœlis* suppeditandâ, quâ securior fieret *Navigatio*. Idcirco *Regi Serenissimo* OBSERVATORIUM ædificandum edicere placuit, & ut Sumptus Ædificio isto necessarij, ab Instrumentorum *Bellicorum* Foro suggererentur; quando JONAS MOOR *Eques*, *Organorum* *Bellicorum* tum temporis *Curator Generalis* (Qui me, ut operi huic Astronomico idoneum, *Regi* commendaverat, & durante suâ vitâ, omnibus oblatis occasionibus, mihi semper amicissimum semetipsum præbuerat, & pro Rebus *Observatorii* ædificandi sollicitum) studiose curavit, ne quid Operi promovendo & perficiendo deesset.

Æstate Anni 1670 familiaritatem cum celeberrimo Domino *Moor* contraxi, quo tempore *Townleii* *Micrometrum* mihi dono dedit; ac insuper eodem Tempore, *Vitra* optima pro Tubis 15 & 7 pedum acquisivi, quibuscum, Organoque *Townleyano*, omnes meas Observationes apud *Derby* peregi, *Annis* nimirum, 1671, 1672, 1673, & 1674: *Vitra* hæc præstantissima *Loudinum* mecum attuli, unâ cum *Quadrante* ferreo, cujus *Radius* trium erat pedum, & cujus *Limbus*, ex Orichalco fabricatus, diagonaliter fuit divisus, cui etiam *Index Telescopicus* erat appensus; quo Instrumento in ejusmodi Observationibus usus sum, quas apud *Greenwich* peregi, antequam OBSERVATORIUM mihi recipiendo paratum & accommodum exitit.

Inter hæc, *Sextantem* machinatus sum (cujus *Radius* erat ultra 6 pedes) ex Ligno primùm, postea ex Ferro fabricatum, cui *Limbus* æneus superinductus erat, duorum pene Digitorum quoad Latitudinem, ac $\frac{1}{2}$ digiti quoad Crassitiem; ex Sump-
tibus

tibus, nimirum, præfati viri generosi JONÆ MOOR *Equitis*, qui *Limbum cochleatim* insinuandum, & Indices *Telescopicos* a D^{no} *Tompion*, Artificum suæ ætatis præstantissimo, infigendos, curavit. Postea ne quis Jure hunc sibi vendicaret, coram duobus Testibus fide dignis gratis in me contulit, cum hoc speciali Mandato, si, duntaxat, e *Greenwich* excederem, unà mecum *Sextantem* transferrem; si non verò, ut illum solerti Cuidam & ingenioso Viro, qui Usibus destinatis Illum applicaret, Testamento legarem: Atque cum hisce *Organis*, & duobus *pendulis Oscilatoriis annuis*, a dicto Jonæ Moor constructis, & ab Eodem mihi Dono datis, unà cum alio *Pendulo hebdomadario* ad meipsum spectante, Mense *Augusto* Anni 1676, OBSERVATORIUM *ingressus*, Fixarum Distantias Intermutuales, & ex iisdem Planetas, Mense sequenti exeunte, mensurare sum auspicatus.

Hæ mearum Observationum præcipuas, a primo in *Observatorium* Ingressu usque ad *Septembrem* Anni 1689, complectuntur: Ideoque hujus *Organi* & singularum ejus partium *Descriptionem* tradere accuratam, hoc in *Loco* necessarium duxi; quæ omnia dictus Dominus *Moor* propriis Sumptibus delineanda & excudenda efficere dignatus est, unà cum quibusdam *Observatorii* Prospektibus impressis, quos etiam mihi benignè largitus est.

RADIUS hujus *Sextantis*, a Centro ad extremum in *Limbo* Circulum (in quo singuli *Gradus* in 12 partes sunt divisi) 6 pedes & $9\frac{1}{4}$ digitos Longitudine complectitur, sive 81 & $\frac{21}{100}$ Digitos; atque *Fulcra* ex Ferro malleato consistunt. Prope centrum Suspensionis est *Lamina* rotunda A, 9 digitos lata, & $1\frac{1}{2}$ crassa, cui sunt 10 Costæ subscudatæ duos extremos Radios sustinentes, 1 digitum latæ, & $1\frac{1}{2}$ crassæ, ubi, scilicet *Lamina*, A infiguntur, sed arctiores evadunt ac depressiores prout extremo, cui cochleatim infiguntur, Radio appropinquant. Septem parvæ *Trabes*, ex solido tamen Ferro conflatæ, sub *Limbo* productæ, sustinent Regulam ferream depressam, duos circiter Digitos latam & Semidigitum crassam, septem circiter Digitos a Parallelo latere *Sextantis* distantem, & super *Limbum* insistentem: super hac Regulâ, Telescopii fixi *Vitra* locantur, & exinde *Spatium* pro duorum *Observatorum* Capitibus acquiritur, ut *parvam* Distantiam, pariter ac *amplam* observare facillimè queant. *Sextantis Limbus* in eodem est plano cum
binis

binis *Radiis*, & ex Ferro fabricatus, $1 \frac{1}{2}$ digiti latus, & *Laminâ* orichalcicâ, haud parùm latiori, & $\frac{1}{2}$ digiti crassâ, obducitur; cujus *Limbi Margo* extrema, *Acie Cochleæ Chalybeæ*, 17 *Strias* in tervallo unius digiti complectentis, curiosè & exactissimè denticulatur; quarum *Striarum* Revolutiones, in propriis *Circulis*, propè ipsas *Strias*, super *Limbi Planum* ductis, numerantur: Intra hos autem *Circulos* sunt *Gradus*, *Diagonalium* ope divisi, ubi *Distantia* inter singulas *Diagonales* est 5 Minutorum, & *Limbi* Latitudo, ubi hæ *Diagonales* inscribuntur, $\frac{51}{100}$ unius Digiti comprehendit: hinc totum illud *Spatium* in quinque partes dirimitur, in Margine *Quadrati* ænei quod *Indici* annectitur, & singulæ ex hisce *particulis* (sive Minutis) in 6 alias distribuuntur, 10 *Secunda* sigillatim repræsentantes: propterea, haud ardua Res esset *Angulum* in Cœlis, aut *Distantiam*, ad tantam *Azimuthi* metiri, si *Arcum Circuli* tam accuratè Artificio humano dividi posse, nobis planè constaret: num verò Id fieri queat, Dubium remanet; præstat tamen ad summam niti *Azimuthi*, quum præsertim *Telescopia* ultimæ perfectionis consequendæ ansam præberent, si *Sensuum* perceptiones & *Manuum* operationes, pariter essent subtiles, ac *Oculi* sunt ad videndum perspicaces.

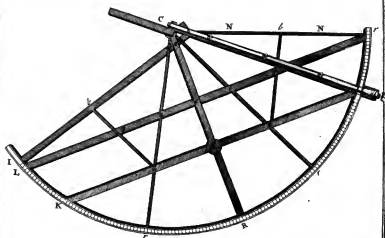
Sed ut *Gradus* in hoc *Sextante* amplitudo, & *Indicis* per *Limbum* circumductio, clariùs intelligatur, istius *Limbi*, unâ cum *Indice*, portiunculæ cujusdam *Schema*, hic exhibendum duxi; quæ quidem *Particula*, ejusdem est cum *Archetypo* Magnitudinis; sicut etiam hic trado *Graduum Diagonales* sub *Indice* cadentes, atque *Divisiones* in Margine *Quadrati*, quod *Indicis* vicem explet.

Vide Fig. ad Finem
horum Prolegomena

Hujus FIGURÆ Descriptio.

Index mobilis I K circa *Centrum* Instrumenti revolvitur, & binis *Vitris Telescopicis* convexis instructus est, atque ad *Distantiam Vitri Ophthalmici* ab oculo versus *Vitrum Objeclivum*, *Cellâ* ornatur duo *Fila* decussata sustinente, quæ *Pinnaculorum* in Organis vulgaribus vicem præstant. Instrumenti *Faciei* posteriori, inter *Limbum* & *Radium* dextrum, *Frustrum* Ferri spissum affabrè, quidem elaboratum, affigitur, cui ad S & S adaptantur duo *Scapi* ex *Orichalco* crassi; ut duas extremitates *Diametri* NN, in *Semicirculo* denticulato FF recipiant; quæ

ARCUS MERIDIONALIS



F. Boven Aug.

quæ *Diameter*, unâ cum *Scapis* quibus *Diametri* Extremitates *Cylindrica* intruduntur, *Telescopio* fixo BB parallela semper ponitur. Ad rectos etiam *Angulos* cum ferrea *Regulâ*, majorem *Semicirculum* ad posteriorem *Sextantis* faciem sustentate, affigitur alia *gracilior* *Regula* ferrea, quæ alterum *minorem* & exiliorem *Semicirculum*, ad rectos cum Plano *Majoris* *Angulos*, insistentem, fulcit, cui annectitur, *Fibula* ferrea *Interventu* 7.7. (ut in *Figura* videre est.) In cujus *Semicirculi* fundo *Cochlea* perennis locatur, quæ *Manubrio* suo, 10, movet & inclinât *Organi Planum* ad quemlibet *Angulum* quæsitum cum plano *majoris* *Semicirculi* sive *Meridiani*; sic enim appellari potest, quum illius *Planum* semper in *Axe* jaceat, *Axi* *Mundi* parallelo. *Axis* p. p. ex ferro fit elaborato, quoad *Diametrum* tres circitur digitos, parte quidem inferiori rotundus, ad fastigium verò penè quadratus, unâ cum *Fissura* in eo affabrè factâ, ejusdem cum *Meridiano*, sive *majoris* *Semicirculo*, crassitie, cujus Centro insigitur prope Verticem D; atque *Semicirculi* *Circumferentia denticulata* revolvitur ab aliâ *Rotâ* itidem *denticulatâ*, quæ ab alterâ rursus *Rotâ* revolvitur, quæ denique Motum suum recipit a *Cochlea* perenni & *Manubrio* ad X. Atque mediante hoc *Semicirculo* *Telescopium* fixum BB, in *Parallelo*, sive *Declinatione* *Sideris* alicujus ponitur. Paululûm infra istius medium, in *Scapo* Q recipitur *Axis* in vertice *Frustrî* ex *Quercu* solida erecti, cum quo *Frustrî* *Axis* *Angulum*, *Latitudinis* *Complemento* æqualem, efficit: *Frustrî* hujus *lignei* erecti fastigium massam *Æris* superimpositam sustinet, in qua *Semiscapus* fabrefactus est, ut scilicet unum *Axeos* *Latus* recipiat, quod super Eo incumbit ac innititur; alterum verò *Axeos* *Latus* altero *Semiscapo*, ex ære crasso, prioris instar, cooperitur, qui mediantibus quatuor *Cochleis* firmis *priori* *semiscapo* adjungitur; adeo ut *Axis* inter utrumque facile ac firmiter absque concussione aut vacillatione circumgyretur, nisi a causis violentis & extraordinariis e loco suo deturbetur. *Extremum* hujus *Axeos* inferius, in *Figuram* conicam limatum & efformatum, in *Cavitatem* admittitur conicam, constantem ex solidâ æris massâ huc & illuc mobili, super *Pedestali* ad R. *Axis* hic, unâ cum duobus *Semicirculis* *denticulatis*, hujus *Machinationis* pars est præcipua, ut *Organi Planum* adducatur in *Planum* per duas quaslibet *Stellas*

D d

transiens:

transiens: Nam si *fixum Telescopium* BB, ope *majoris* Semi-circuli FF, dirigatur, donec aliqua *Stella* in *Filorum* Medio vel propè *Fila* decussata appareat; tum *Telescopio* apud *Stellam* detento, *Instrumenti Planum* ita moveri poterit, ut *Indice* mobili per *Limbum* traducto, quævis *alia Stella* in *Telescopio* secundum *rectam lineam* conspici possit, & istius *Stellæ Distantia* a priori sumpta, nullo negotio mensurabitur; atque hæc *Mensura* non variat, quanquàm *Iterata* pro *Inclinatione* in *Instrumenti Plano*; quod necessariò evenisset si *Axis* in Situ erecto fuisset constitutus, sicut *TYCHONIS* atque *HEVELII Sextantibus* accidebat. Quicquid ulteriùs hoc de *Organo* cognoscendum est, patebit ex *Figuris*, quas inspicere & sedulò nsiderare *Lector* admonetur.

Priusquam fabricatus est Sextans, rogavi ut *Quadrans* sive *Arcus* prius fieret pro capiendis *Fixarum* a *Vertice* *Altitudinibus* *Meridionalibus* sive *Distantiis*; quod mihi quidem promissum erat: Quidam verò *Regia Societatis* Frater, qui semper sua *Inventa* magnoperè ostentabat, *Quadrantem* illum machinari obnixè voluit. *Murum* tunc *Meridionalem*, cui affigeretur, præparandum curavi; ast quum aptus esset *Quadrans* ut *Conspectui* sisteretur, inutilem eum futurum deprehendi, ob ingens, nimirum, binorum *Indicum* pondus: Nihilominùs hoc *Organum* tentari voluit *Vir artificiosus*; itaque *Muro*, sicut rogabat, affigebatur; sed, prout expectabam *Ego*, inutile compertum est. Undè mensurandis in *Cælo Distantiis*, *Sextante* nempè supradicto, *Animum* appuli, earumque *Copiam* mediocrem nactus sum, sub finem *Anni* 1676 & sequentis 1677: Comperiens autem *Cochleæ* *frias* *Marginem* *Limbi* attrivisse, *Sextantem* in partes resolvere, *Gradus* in *Limbo* distribui ac *Diagonales* duxi, ut in *Schemate*; *Tabulamque* *Revolutionum*, & *Partium* singulis *Gradibus* & *Minutis* *Arcus* divisi respondentium, confeci; quibus faciliè investigare poteram, num *Partes* aut *Revoluciones* *Cochleæ*, *Gradibus* & *Minutis* in *Limbo* numeratis, congruerent; aut si quivis *Error* irreperit, corrigere valebam. Hucusque *Cochleæ* *Revoluciones* in *Gradus*, *Minuta* & *Secunda* converteram, ope *Tabulæ* in hunc finem conflatae, quam ex *Angulis* *Terrestribus* studiose notatis deduxeram; jam verò *Tabulam* cum *Diagonalibus* inscriptis conferendo, illam ad integrum ferè *Minutum* erroneam aliquando deprehendi: Ideoque *Revoluciones*,

Revoluciones, in Gradus, Minuta & Secunda, rursus converti, ope Tabulæ *novæ* in hunc Effectum compositæ; atque hæ sunt Distantiæ in Historia Cælesti pro Anno 1678 impressæ.

Appropriato, pro capiendis Meridionalibus Stellarum a Vertice Distantiis, Organo opus habens, ad Intermutuales, nempe, Illarum Distantias connectendas, quasdam Sextante meo nancisci machinatus sum; & mense *Decembri* 1677 maximas & minimas a Vertice Distantias observavi. Inde *Observatorii* Latitudinem, Refractione castigatam, repertam habui $51^{\circ}, 28', 10''$, & Distantiam Stellæ *polaris* a Polo — $2^{\circ}, 25', 10''$. At simul conferendo Stellæ *postremæ* in Cauda

Ursæ majoris, distantiam a Vertice observatam,

versus Austrum, viz. — $32^{\circ}, 10', 0''$

Ejusque a Stella polari distantiam, viz. — $41^{\circ}, 23', 0''$

& Rectarum Adscensionum datarum differentias viz. $164^{\circ}, 9', 0''$

Simplicem invenio Latitudinem — $51^{\circ}, 29', 22''$

Sed Refractione castigatam — $51^{\circ}, 28', 30''$.

Sicut deinceps *murali* meo *Arcu* definiivi.

Præterea plurimæ Observationes, eo ac sequentibus Annis, usque ad 15th *Septembris* Diem Anni 1680 sunt institutæ: at exploratum habens, pondus *Indicis* mobilis, in singulis Translationibus, *Locum* Perpendicularis indefinenter mutasse, ipsumque *Organum* ægrè admodum sub Plano Meridiani defigi posse; Organum illud seponere cogebar: ideoque aliud machinatus sum, quod & propriis meis sumptibus fabricavi, ejusdem propemodum *Radius* cum meo *Sextante*; Hoc verò in Gradus propriâ manu partitus sum, sicut in Sextante non ita pridem feceram; Eoque haud paucas *Meridionales* a Vertice Distantias *Fixarum* Insigniorum, & quasdam etiam *Planetarum* detexi, ab Anno 1683, ad Annum usque 1687. A quibus, unâ cum Observationibus Sextante meo institutis, Catalogum deduxi, qui complecteretur Rectas Adscensionones *veras*, Distantias a *Polo*, Longitudines & Latitudines *Fixarum* ferè 130; usque ad initium Anni 1686; quo *Catalogo* deinceps usus sum usque ad Annum 1696 (quando pleniorē longè & accuratiorē formare aggressus sum) & in computandis *Cometarum*, *Planetarum* superiorum, *Lunæque* Locis, illum eatenus adhibui: quæ Omnia consiliorum meorum Sociis, præsertim Domino *Bosley*, ISAACO NEUTONO Equiti, aliisque, usque ad Annum præfatum 1696 impertitus sum; sub hac tamen perpetuâ Conditione, ne quemlibet alium horum participem redderent,

redderent, aut ulli divulgarent; quoniam meliori & ampliori *Catalogo* componendo tunc Temporis incumbbam, ex quo perfecto tandem & absoluto, earundem Stellarum Computatio rursus institueretur. Sed post quatuor Annorum explorationem sive experientiam, Organum hoc debile nimis ac tenue animadvertens, de Pariete illud detraxi, atque varias ferreas firmasque *Costas* & *Limbum* novum ex *Ære* solidum ei addidi.

Hucusque *DEUS optimus Maximus* mihi fuit Adjumento; atque ut *Spiritus* ejus Sanctus & benignus me in posterum adjuvet, omnesque meos Labores & Conatus, prospero Eventu & Exitu felici, clementer secundet, humillimè precor; ut opera mea tandem consummata & exacta, quâ possum Diligentia, *Creatoris* omnipotentis Laudes & Gloriam celebrent inter Vivos postquam Ego Fatis concessero.

Mense Majo 1688 *J. Stafford* meus Amanuensis diem obiit supremum, & Augusto proximè sequenti *Abrahamum Sharp* illius vice conduxi, qui *Mechanices* perquam expertus, pariter ac *Mathesios* peritus, *Limbi* Marginem *Cochleis* firmavit, Gradus exculpsit, *Indicem* adaptavit, omnesque ac singulas ejus partes tam affabrè fabricavit, ut omnibus Artificibus expertis, qui opus illud conspexerunt, admirationi fuerit.

JAM ad *Arcus Muralis* Descriptionem deventum est. In hoc fabricando præcipuè fuit occupatus dictus Dominus *Sharpus*, servus meus fidelissimus, ac omnibus quidem Dotibus & Facultatibus erat imbutus, quæ ipsum tam subtili ac difficili Operi obeundo idoneum redderent. Quatuordecem Mensium operâ, & Pecuniæ numeratæ summâ, ultra 120 libras, mihi constitit hoc Organum; cujus Descriptionem hic tradam, & postea ostendam quo pacto meus *Fixarum* CATALOGUS deducebatur ex Observationibus institutis per 30 penè

*Vide Figuram ad Finem
horum Prolegomenon.*

Annos, a me, ope hujus Instrumenti, postquam absolutum erat.

Radius a Centro *Arcus* ad *Limbum Cochleatum* est 79½ digitorum, & a Virgis, sive Radiis, vel *Trabibus* ferreis sustentatur seu sustentatur; quarum superior *Trabs* CL & *media* CR, sunt crassiores, cæteræ verò graciliores: ad Rectos cum *media* CR Angulos, alia crassa *Trabs* ferrea EK infistit, & ex parte posteriore, sub E, ubi connectuntur, magnus locatur *Clavus* ferreus, qui firmo *Quercus* frusto intruditur, quod parieti

Parieti affigitur, adeoque *Arcui* aliisque *Costis* Arcui junctis sustendendis aliquantulum confert, in locis viz. d d notatis. Alia *Costa* ferrea ponderosa r l huius parallela in *Fulcro* ponitur, quæ tribus *mediis* Radiis in punctis nempe c, c, c, connectitur, unâ cum *inferiori* Limbi *Facie* prope puncta l & r. atque ubi Radii 2.^{us} & 4.^{us} maximam *Trabem* ferream transgrediuntur viz. a puncto d ac d, duæ altæ *Trabes* corroborantes d b ac d b, usque ad duos extremos *Radios* apud b ac b, & ad superiorem *Trabem* transversam elevantur apud g.

Omnes Radii e r, CR, e r, r r supremae *Trabi* solidæ l, m, sub *Centro* c ad o, o, o, o, affiguntur, totumque Organum a duobus spicis ex ferro *Fulcimentis* sub præfata *Trabe* suprema apud N & N super *Pariete* pendet ac sustentatur.

Muro Meridionali (cui affigitur) diversa *Ligni* *Frusta* adaptantur, quæ *Arcum* ab eo remotum sustentant, & ope ferri *Cuneorumque* ligneorum, *Arcum* stabilem & ad eandem constanter a *Muro* *Distantiam* detinent; ita ut cedere nequeat, nisi *Parietis* subsidat vel a *Perpendiculo* deflestat. Arcus *Index* ad modum *Indicis* in *Sextante*, efformatur, sed multo ponderosior est, & ad *Relevamen* Manus quæ illum attollit ac deprimit, *Funiculo* alligatur, qui ope *Trochleæ* ac *Equilibrîi*, magnam *Ponderis* partem demittit, & haud difficulter Viro cauto tractabilem reddit in *Telescopio* Vitrocorum convexorum, & *Filorum* decussatorum pari, sicut *Index* *Sextantis*, instruitur hic *Index*, & circa *Lambum* fertur, *Cochleæ* huic applicatæ Interventu, quæ eodem modo, quod ipse *Index* circumducitur, & propterea ulteriori *Descriptione* non eget.

Ut autem inveniat, ubi *Dipositionum* *Initium* in *Arcu* locandum erat, postquam *Perpendiculum* Fili *orichalcici* subtilissimi in *Locum* *Indicis* convenientem aptaveram, ita ut liberè super *Laminâ* *Indicis* mensurante *ocillaretur* Cellam *Fila* decussata sustententem sic vertebam, ut *Stella* *fixa* *Meridianum* transientes per *Filum* mensurans inoverentur, tum *Indice* demisso, versus *ZENITH*, Die 13.^{ta}, 16.^{ta} & 17.^{ta} *Julii* 1689, *Transitum* *Stellæ* *lucidæ* in *Capite* *Draconis* per *Meridianum*, sive transverse per *Fila* mensurantia observavi; primo quando *Index* versabatur super *Organo*, cujus *Planum* versus *Orientalem* *Cœli* *Plagam* spectat. Eodem tempore Dominus *Sharpius* meus tunc contubernatis, qui hucusque varias *Instrumenti* *Partes* fabricaverat, *Punctum* notaverat in *Plano*

Indicis mensurante, super quo *Perpendiculum* oscillat; bonum *Vitrum* Telescopicum *Ophthalmicum* convexum adhibens, in Oculi sui subsidium. Nocte autem proximò sequente, *Index* ad oppositum *Murum* Meridionalè (qui Occidentem versùs spectat) removebatur, ubi *Centrum* & *Arcus* huic recipiendo adaptabantur; atque *Indice* ac *Perpendiculo*, sicut antè, super *Arcu* aptatis, ejusdem *lucida Stellæ* in *Capite* Draconis *Transitus* rursùs observabatur, & per idem Tempus Dominus *Sharpius Punctum* in *Arcu* notavit super *Indice*, in quem *Perpendiculum* oscillabat; & *Punctis*, unà cum *puncto* intermedio, per experimenta repetita determinatis, *Index* super *Arcu* iterum constitutus est, & *Cochleæ* movebatur, usquedum *Perpendiculum* *subtile* exactè incidebat in Medium inter *duo puncta* Observationibus supramemoratis definita; quandò, nempe, super *Plano* Muri *Occidentali* & Instrumenti *Plano* ponebatur. *Indice* ita locato, *Linea* transversè per *Limbum*, Margine Indicis *fiduciali*, ducebatur, pro principio, nimirum, *Divisionum*, non solum quoad *Gradus* & *Minuta*, sed etiam quoad *Cochleæ Revolutiones*, quæ *Oram* Limbi *denticulatam* apprehendit, & *Indicem* per omnes ejus partes circumducit, atque *Cochleæ Revolutiones*, simul & *Gradus* ab hac *Linea* in *Limbo* utrinque numerantur.

Limbi complanati *Faciei* exteriori inscribuntur *Revolutions*, inque spatio $\frac{1}{2}$ partium digiti lato numerantur, intra quod *Diagonales* consistunt pro singulis 5 *Minutis*, nempe inter *duos* Circulos, quorum Intervallum est unius ac $\frac{12}{100}$ Digiti: nulli hic sunt circuli *concentrici*, sed *Lamina* æneæ *Margo* fiducialis super *Indice*, in quinque partes dividitur, non præcisè quidem *Æquales* (licet ita fieri potuissent absque quovis Errore sensibili) sed *Inæquales* secundum

	<i>Tabella</i>
1	251
2	503
3	757
4	1013
5	1270

Numeros in *Tabella* hic annexa: namque posita Partis in *Limbo* diagonalis Latitudine unum quasi digitum & $\frac{27}{100}$ partes digiti, *Distantia* singularum ab *intimo* Circulo *Divisionum*, *Diagonales* terminante, accuratà Computatione deprehendetur, prout inibi speciatim designatur, viz.

Spatium inter quodque Minutum in *sex* partes æquales distribuitur, quarum idcirco unaquæque $\frac{1}{6}$ digiti partes paululum excedit; adeo ut in hoc *Organo*, singula 10", vel saltem Eorum pars dimidia sciz. 5", distingui possunt.

In

In *Circulo* supra hæc *Gradus* describuntur, five numerantur & exculpuntur, artificiosa manuali operâ dicti Domini *Sharp*, qui *Limbum* partitus est, *Diagonales* duxit Totumque *Organum* absolvit ac perfecit; adeo ut præstantissimi quivis *Artifices*, postquam illud conspexerunt & considerarunt, se exactius id peragere non potuisse, agnoverint.

Organo sic absoluto, primum erat Opus, ut inveniretur, num alterationem aliquam subiisset post, icilicet, illius *Verificationem* Julio præcedente, ideoque 19^o *Septembris* sequentis, *Stellæ* in *Cygo* distantiam a *Vertice* capiebam super Instru-

mento *Austrum* versus ————— 0°, 24', 00"

5^{to} die *Octobris* super *Plano* Occidentali ——— 0, 22, 05

Rursus *Octobris* 8^{to} super ipso *Instrumento* ——— 0, 23, 55

Itaque *Differentia* inter *Observationes* super *Plano*

Instrumenti, ac dicto *Plano* occidentali ——— 0, 01, 50

Cujus *Dimidium* *Instrumenti* *Error*em exprimit, viz. 0, 00, 55

atque illarum *Stellarum* *Meridianum* pertranseuntium *Distantias* a *Vertice* versus *Austrum* tanto nimis amplas, & versus *Septentrionem* tanto nimis parvas esse ostendit.

Sed ut certi reddamur, illum fuisse genuinum *Instrumenti* *Error*em Diebus 13^{to}, 15^{to}, ac 16^{to} *Decembris* proximo-sequentis & *Stella* 4^a *Magnitudinis* in *Capite* *Cassiopeiæ* *Distan-*
tia a *Zenith* five a *Vertice* super *Arcu* observata

— est versus *Boream* ————— 00, 41, 50

— *Decembris* eodem 16^{to} super *Plano* Occidentali 00, 43, 50

— Rursus 17^{to}, super ipso *Instrumento* ——— 00, 41, 55

— *Differentia* duarum posteriorum *Observa-*
tionum, viz. ————— 00, 01, 55

— Cujus *Dimidium* dat *Arcus* *Error*em, viz. 00, 00, 57½

— Rursus 16^{to} *Decembris*, in *Muri* *Plano* occi-
dentali, & *Stella* quintæ *Magnitudinis* in
Capite *Persei* a *Vertice* transit versus
Boream, viz. ————— 00, 00, 25

— 17^o super *Instrumento* versus *Austrum* 00, 01, 50

Et Eorum Summa 00, 02, 15

Cujus *Dimidium* est *Error* *Instrumenti*, viz. 00, 01, 07½

Porrò

— Porro eodem Die 16 ^{to} <i>Stella</i> tertiæ Magnitudinis in <i>Persei</i> Humero super <i>Plana</i> occidentali a <i>Vertice</i> transit versus <i>Boream</i> , viz.	00, 48, 10
— atque Die 17 ^{mo} super <i>Arcu Murali</i> ad <i>Boream</i>	00, 45, 55
Eorum <i>Differentia</i>	00, 02, 15
Ejusque <i>Dimidium</i> , five <i>Error</i> Arcûs	00, 01, 07½
Hinc <i>Error</i> Instrumenti, 8 ^{vo} nempe <i>Octobris</i> determinatur fore	00, 00, 55
At 16 ^{to} die <i>Decembris</i> proximo-sequentis, fore	00, 01, 05 vel 10

Ut verò innotescat, undè hic *Error* postea, scilicet, eodem 16^{to} *Decembris*, Mutationem subiit; *Meridionales* accuratè a *Zenith Distantia* observabantur, viz.

— <i>Tauri Oculi Borealis</i> a <i>Zenith Distantia</i>	33, 01, 45
— <i>Tauri Oculi Australis</i>	35, 38, 20 vel 25
— In pede <i>Castoris</i>	28, 56, 00
— <i>Correcta</i> Distantia	28, 54, 50
— In Calce <i>Castoris</i>	28, 51, 30
— <i>Correcta</i>	28, 50, 20
— In	31, 07, 25
— In sinistro pede <i>Pollucis</i>	34, 51, 55
— In Genu <i>Castoris</i>	26, 05, 45

Stellarum in *Geminorum* pedibus, *Coluro Solstitiali* vicinarum, exiguisque Latitudinibus præditarum, *Declinationes*, paucorum Annorum Intervallo sensibilibiter mutari nequeunt, ex quovis Pundtorum *Terræ* Equinoctialium Recessu, vel ex ORBITÆ Terrenæ *Parallaxi*; atque Ratio facile haberi potest pro Alteratione ex harum Causarum priori proveniente: quum autem ipsa ORBITÆ *Parallaxis* ferme sit imperceptibilis; *Variationes* ab illa oriundæ multo minus cadent sub sensum: *Stella* ergo prædictæ Instrumenti *Erroribus* definiendis Omnium aptissimæ sunt, quos quidem *Errores* ex Subsequentium Annorum observationibus quotannis idanctos deprehendi.

Dua

Dua sunt aliae Stella ad μ in summitate Arcus Sagittarii, Coluro Solstitiali adjacentes, quibus Latitudo est parva, ac proinde eidem Scrutinio inservire queunt: sed quia earum Latitudines inter duos sive tres Gradus tantum consistunt; in promptu est suspicari, Earum Declinationes depravari posse ab ORBITÆ Parallaxi, vel a Refractionibus variabilibus; quoniam ultra 18 Graduum Altitudinem in Meridiano non assurgunt: quapropter raro admodum illas adhibui.

Proximè inquirendum restabat, utrum Differentiæ inter Tempora Transituum *duarum* quarumlibet Stellarum, eandem propemodum Declinationem habentium, in partes Circuli conversæ, exhiberent easdem Differentias suarum rectarum *Adscensionum*, inventarum ex *Intermutualibus* suis Distantiis Sextante observatis, & ex *Distantiis* a Polo, ope Arcus muralis observatis: illud certior factus, compertum habui, *Differentias* raro admodum majores esse illis, quæ facile concedantur profluere ex Difficultate *Dividendi* & exactè *Instrumenta* collocandi, sive subtiliter & accuratè definiendi *Momenta* Temporis, præterlapsa inter *duarum* Stellarum *Transitum*, per *Planum* meridionale, vel prope *Meridiem*.

Ope harum aliarumque Observationum, Mensium *duodecim* subsequen-
tium spatio institutarum, hujus Organi *Error*es ad quosdam posthac Annos determinati sunt. Quondam equidem existimabam, quod eos inter se invicem comparando, *Quantitatem Nutationis* Axis *Terreni* ab ISAACO NEWTONO introductam invenire potuerim: at si tale quid reverà detur, adeo minutum est ut vix sit perceptibile, nisi longè amplioribus quàm 7. pedum quoad Radium *Organis*, magisque quam mea sunt, fixis, sive obfirmatis, quæ (vereor) vix acquiri possunt.

Denum mihi inquirendum incumberebat in OBSERVATORI *Latitudinem*, quæ ex *Stella polari* inventa est *Methodo* sequenti, viz.

			Zenith Distantia	
1689 Novemb. 29 ^{mo}	h	"	0	
	19	24	30	40 50 40 vel
				35
	30 ^{mo}	7	27	25 36 7 50 vel
				55

F f

Decemb

1689 Decemb.	1 ^{mo} .	^h 19	['] 18	["] 25	^o 40	['] 50	["] 40	vel	
	9 ^{ho} .	6	55	0	36	7	55		
	15 ^{to} .	6	36	52	36	7	55		
							vel 8	0	
	17 ^{mo} .	6	5	9	36	8	0		

Hinc consentientibus singulis horum diverforum Dierum Observationibus, *Minima* Stellæ *Polaris* a Vertice. est *Distantia*, viz.

	^o 36	['] 8	["] 0	& Max.	^o 40	['] 50	["] 45
Error Instrumen.	+ 0	1	10		+ 0	1	10
Error Division.	+ 0	0	15		+ 0	0	15
Refraçtio	+ 0	0	36		+ 0	0	41
Distantia <i>Minima</i>	36	10	1		40	52	51
Distantia <i>Maxima</i>	40	52	51		2	21	25
<i>Differentia</i>	4	42	50		38	31	26
<i>Dimidium</i>	2	21	25		51	28	34

Distantia *Minima* 36 10 1 summa 90 0 0

Complem. *Latit.* 38 31 26

Hinc OBSERVATORII *Latitudo* _____ 51° 28' 34"

Vel rotundè _____ 51 28 30

quâ determinatâ, proximè venit statuenda *Maxima* SOLIS declinatio five ECLIPTICÆ *Obliquitas*, quam ex propriis *meis* Observationibus priùs indagabo; postea verò cuius attendenti ostendam, quod *Tychonis*, *Hævelii* & *Gallorum* quorundam Observationes eandem exhibent *Obliquitatem*, quando; nimirum, vera SOLIS *Parallaxis*, & genuinæ *Refractioes*, Eorum applicantur Observationibus.

Anno 1690, Junii 10^{mo}, SOLIS *Limbi* superioris, five proximi a Vertice *Distantia*, ex Observatione repetitâ super Instrumento erat, viz.

	^o 27	['] 44	["] 40	Limbi Remotioris	^o 28	['] 16	["] 10
Error Instrumenti —	0	1	30		—	0	1 30
	+	0	0 15		+	0	0 15
Distantia Correcta	27	43	25	Distantia Correcta	28	14	55
& Limbi Remotioris	28	14	55	Limbi Superioris	27	43	25
Summa	55	58	20	Summa	55	58	20
Dimidium	27	59	10	Dimidium	27	59	10
OBSERVATORII Latitudo rotunda	} 51 28 30				+ 0 0 27		
SOLIS Declinat. Maxima	23	29	20		27 59 37		
dempta Refractione	0	0	30	Latitudo	51 28 30		
Maxima remanet SOLIS	} 23 28 50				23 28 53		
Declinatio Correcta				SOLIS a Tropico Distantia	0 0 4		
				SOLIS Maxima Obliquitas	23 28 57		
Maxima igitur SOLIS Declinatio est	23° 29' 0"						
Anno proximo-sequente 1691, Junii							
11 ^{mo} , SOLIS Limbus Superior fuit	} 27 45 30						
				vel 35			
Limbus Inferior	28 16 55						
	vel 17 0						
Summa	56 2 25						
Centrum SOLIS	28 1 12						
Error Instrumenti —	0 2 20						
				Remanet	27 58 52		
				Secundus Error +	0 0 15		
				Summa	27 59 7		
				Refraction +	0 0 28		
				Summa	27 59 35		
				Aequator a Vertice	51 28 30		
				SOLIS Maxima Declinatio	23 28 55 vel 23° 29' 0"		

Locus SOLIS per id tempus erat 5' adeo ut ejus Declinatio non Minor effet, quoad unum Secundum, quam erat in ipso Coluro Solstitiali : hoc igitur nomine, nullā eget Correptione.

Qui

Qui ante *Tychonem* floruerunt *Astronomi*, Latitudinem suarum *Habitationum* decernere solebant, & *Eclipticæ* Obliquitatem, ex observationibus, duntaxat, *Meridionalium SOLIS* Altitudinum, tam ad Solstitium *Æstivum* quam ad *Hyemale*; unde suarum Domuum *Latitudines* & *Eclipticæ Obliquitatem*, minores Verò efficiebant; ita ut quò propiora *Septentrioni* essent eorum *Domus*, Eorum etiam observationes a Veritate magis aberrabant: sic ARABES Parallaxin *SOLIS Horizontalem* à PTOLEMEO adhibitam usurpantes, *Eclipticæ* Obliquitatem definiebant $23^{\circ} 30'$ vel $31'$: *Copernicus* autem $23^{\circ} 28' 30''$ illam statuebat.

— A Temporibus enim ⁷⁸ AL HOSEIN EBN SUPHI, sive *Albajsen*, & etiam *Vitellionis*, notum erat, Stellas ac *Luminaria* apparuisse altiora quàm reipsa erant, ex eo quòd eorum *Radii* in nostro refringebantur *Aere*: BERNARDUS WALTERUS, qui centum floruit Annis ante Nobilem *Danum*, ex propriis suis Observationibus *Idem* etiam reperiit: At neque REGIOMONTANUS, nec COPERNICUS, nec Quispiam ante *Tychonem* mihi cognitus, opinatus, est Refractionem præfatam suas Observationes tantoperè vitare, ut ullam Ejus Rationem habere oporteret; atque idcirco *Differentias* *Meridionalium SOLIS Altitudinum* in Solstitiis *Æstivo* & *Hyberno*, existimarunt esse realem *Tropicorum* Distantiam; Mediumque inter ipsos *Tropicos* esse Latitudinis Complementum: Quandoquidem *Fruenburgi* in BORUSSIA, ubi SOL in *Meridiano* $12^{\circ} 10'$ tantum erat altus, Refractiones *Illum* elevarunt usque ad $3 \frac{1}{2}$ Minuta; & exinde *Tropicos* efficiebant apparere ultra $3 \frac{1}{2}$ Minuta propiores quàm reverà fuere, & *Æquatorem* ultra tria Minuta quam fieri deberet altiore; prout illam postea determinavit TYCHO BRÄHE mittendo, nempe, Quendam ex Domesticis suis cum Instrumento ad *SOLIS Altitudinem* observandam adaptato: *Copernicus* enim *Æquatoris* Altitudinem $54^{\circ} 19'$ statuebat, at *Elias Olai* $50' 22''$ illam tantum inveniebat.

Nihilominus, quænam futura sit *Eclipticæ* Obliquitas indagabo, ex observatione *SOLIS* institutâ ad Solstitium *Hyemale* Anni 1690; quando scilicet 12^{mo} *Decembris*, *SOLIS* Limbus

Remotus

Prolegomena.

117

Remotus, a Vertice erat	° ' "	correctè	° ' "
Limbus proximus	75 11 30		75 10 0
	74 38 45		74 37 15
	149 49 15		149 47 15
SOLIS Centrum a Vertice			74 53 37½
Error Divisionum +			0 0 20
Refractio			0 3 0
SOLIS Centrum a Vertice, correctè			74 56 57
Latitudo			51 28 30
Declinatio SOLIS			23 28 27
SOL tum versabatur in Capricorno			1 39 0
ita ut ejus Declinatio minor esset cā ad Tropicum			
quoad			0 0 37
quæ, addita illus Declinationi notata, dant Æclip-			
ticæ Obliquitatem, viz.			23 29 4

Æclipticæ Obliquitate ex propriis meis Observationibus sic statuta, inquiram quoque quanta futura sit ex *Bernardi Walteri*, Nobilis *Tychonis*, *Riccioli* ac denique *Hevelii*, Observationibus.

Ex Solaribus *Bernardi Walteri* Observationibus, Regula suâ *Parallaëticâ* factis, Anno 1475, Decembris 12^{mo}, Tempore Meridiano, SOLIS Distantia *Meridionalis* a Vertice, *Nurembergi*, inventa est 72° 52' 32".

Refractio addenda in istâ Distantiâ 0 2 37

Meridionalis, igitur, SOLIS a Vertice Distantia correctâ dat 72 55 9

Anno 1476, Junii 12^{mo}, SOLIS *Meridionalem* Distantiam, eodem Instrumento, invenit 25 56 28

Cui *Refractionem* addendo, viz. 0 0 25

SOLIS a Vertice Distantia redditur correctâ, — 25 56 53

Ideoque totum duorum *Tropicorum* Intervallum est 46 58 16

Et *Æcliptica* obliquitas 23 29 8

Latitudo *Nurembergi* 49 26 1

Et *Æquatoris* Altitudo 40 34 0

TYCHO postea 20 ^{mo} Decembris 1584 Stellæ Polaris	
Altitudinem Maximam observavit esse	58 50 35
Refractionem verò	0 0 30
Stellæ Polaris Maximam Altitudinem meridiona-	
lem correctam	58 50 5
Eodem iterum Anno minimam Poli meridionalem	
Altitudinem	52 58 30
Refractione subductâ, viz.	0 0 35
Restat minima Stellæ Polaris Altitudo Meridionalis	
correcta	52 57 55
Ex Altitudine Stellæ Polaris maximâ, viz.	58 50 5
Subtrahendò minimam	52 57 55
Remanet Circuli Diameter quæ detribitur a	
Stellâ Polari, viz.	5 52 10
Atque Distantia Stellæ Polaris a Polo viz. Circuli	
prefati Semidiatet	2 56 5
Quæ addita minimæ Altitudini Stellæ, nempe	52 57 55
URANIBURGI Latitudinem reddit	55 54 0
& Equatoris Altitudinem	34 6 0
Anno 1585 Decembris 29 ^{mo} ,	
maxima Meridionalis Al-	
titudo erat	58 50 30
Minima autem fuit	52 58 50
Correcta per Refractionem	58 50 0
Correcta	52 58 20
Differentia inter maximam & minimam	5 51 40
Cujus Dimidium est	
Distantia Stellæ Polaris a Polo, viz.	2 55 50
Altitudo Meridionalis minima correctâ	52 58 20
cum prædicto Dimidio, viz.	2 55 50
dat Uraniburgi Latitudinem	55 54 10
Complementum Latitudinis, sive Equatoris Altitudo	34 5 50

Ex Tychonis Observationibus <i>Altitudinem</i> Solis	
Meridionalium, quæ Annis 1583, 1584 & 1585	
variis suis amplis & curiosis Instrumentis in-	
stituebantur, <i>maximam</i> Centri SOLIS <i>Altitudi-</i>	
<i>nem</i> definivit Uraniburgi fore	57 35 15
Cui addendo <i>Parallaxin</i> , viz.	0 0 5
& subtrahendo pro <i>Refractiōe</i>	0 0 20
<i>Maxima</i> SOLIS <i>Altitudo Solstitialis</i> erit	57 34 50
Ex quâ si <i>Altitudo Equatoris</i> auferatur, nempe	34 6 0
<i>Ecliptica</i> Obliquitas erit	23 28 50
Vel si <i>Altitudinem Equatoris</i> sumamus (secun-	
dum Inquisitionem præcedentem) nempe	34 5 50
Tunc <i>Ecliptica</i> Obliquitas erit exactè	23 29 0
	57 34 50

prout ex Observationibus nostris *Grenovicensibus*,
ultra Centum Annos, postea fuit inventa.

Astronomia Reformata
Lib. IV. Cap. 14.

Proximus huic *Observator* erat
Joannes Baptista Riccioli, qui
Nobis narrat se Anno 1655, *Octobri* ineunte,
magno Gnomone Templi, *Sancto Petronio* BONO-
NIE dicati, *maximam* observasse Stellæ Polaris
Altitudinem fore

47 2 43

At *minimam* per id tempus capere nequivit;
quoniam *Stella* interdum *minimam* pertransiebat:
atque posthac, Anno eodem exeunte, *Artifices*
Ei fuere Impedimento.

Veruntamen in quadam *Camera* propè dictum
Templum, Sextante uno 7 Pedum quoad *Radium*,
ac altero 12 Pedum, Vesperis quidem *maximam*
cepit Stellæ Polaris *Altitudinem*, viz.

47 2 43

& *Minim.* Aurorâ subseq. 41° 57' 36"

Refractio 0 0 54

Refractio

0 0 42

Minima Altit. Correc̃ta 41 56 42

Max. Altit. Corr.

47 2 0

Minima

41 56 42

Differentia

5 5 18

Cujus

Cujus Dimidium est <i>Distántia</i> Stellæ Polaris a Polo, viz.	0 1 "
Poli <i>Altitudo</i>	2 32 39
<i>Æquatoris</i> Altitudo	44 29 21
	45 30 39
	90 0 0

Junii 21^{mo} ejusdem Anni 1655 S. N. Meridiona-
lem *Centri SOLIS Altitudinem*, sancti *Petronii*
GNOMONE observavit 68 59 56

& sequente Die, *horâ Mer.* 68 59 53
Refractio 0 0 20 *Refractio* 0 0 20

SOLIS <i>Centrum</i> Correctum	68 59 33	• <i>Centr. corr.</i>	68 59 36
<i>Æquatoris</i> Altitudo	45 30 39	<i>Æquat. Altit.</i>	45 30 39
SOLIS <i>Declinatio</i>	23 28 54	• <i>Declinatio</i>	23 28 57

Eodem 21^{mo} *Junii*, SOL unius Gradûs semissem a *Tropico*
distabat, in suo, nempe, ad *Tropicum Accessu*; Eodem verò
22^o *Junii*, ultra tertiam Gradûs partem a *Tropico* distabat, in
suo, nimirum, *Recessu*: adeo ut 'Solis *Declinatio*, tum in
Accessu, tum in *Recessu*, 4" vel 5" *secundis* Minor erat eâ quam
possidet dum in *Tropico* versatur. Ex hisce ergo *Riccioli*
Observationibus accuratissimis concludendum est, maximam
Æclipticæ Obliquitatem esse 23° 29' atque a *Tychonis* ad
nostra Tempora mansisse immutatam.

In suo Libro vocato *Obser-
vationes Diametrorum SOLIS
& LUNÆ &c.* Lugduni ex-
cuso Anno 1670, in 4^{to}.

Gabriel de Mouton, Templi *Paulini*
apud *Lugdunenses* Gallos *Prefbyter*, No-
bis tradit maximam Stellæ Polaris *Altitu-
dinem* Meridionalem, observatam 12^{mo} *De-
cembris* Anni 1658, *Quadrante*, duntaxat, 7 $\frac{1}{2}$ Pedum quoad
Peripheriam, id est, (uti supponendum) 5 Pedum quoad
Radium, viz. 48° 17 50"

<i>Refractio</i>	0 0 44	<i>Minimam</i>	43 15 30
<i>Altitudo maxima</i> Corr.	48 17 6	<i>Refractio</i>	0 0 50
<i>Altitudo minima</i> Corr.	43 14 40	<i>Minima</i> Corr.	43 14 40
<i>Differentia</i>	5 2 26		

Cujus Dimidium est Stellæ }
a Polo *Distántia* } 2 31 13

<i>Lugduni Gallorum</i> Latitud.	45 45 53
<i>Æquatoris</i> Altitudo	44 14 7
	90 0 0

Anno

Anno 1660 Junii 21 ^{mo} , Altitudinem SOLIS maximam in Meridiano observavit fuisse	67 43 30
A qua si dematur Refractio, viz.	0 0 20
habetur SOLIS Altitudo Meridionalis correctæ	67 43 10
& ablata Equatoris Altitudine, viz.	44 14 7
remanet maxima Eclipticæ Obliquitas	23 29 3

HEVELIUS merito celeberrimus, maximam Nobis dat Stellæ
In suo Prodromo Astronomiæ, pag. 9. *Polaris Altitudinem meridionalem, quam*
Quadrante suo Azimuthali observavit DANTISCI
 Anno 1652 exeunte, viz.

Maxima	56 55 20	Minima	51 50 25
Refractio subtrahenda	0 0 32	Eadem subtr.	0 0 38

Altitudo maxima Corr.	56 54 48	Minima Corr.	51 49 47
Altitudo minima	51 49 47	Stella a Polo Dist.	2 32 30

Circuli Diam. five Diff.	5 5 1	Latit. DANTISCI	54 22 17
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Stella a Polo Distantia } five Dimidium Diff. }	2 32 30	Equatoris Altit.	35 37 42
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Latitudo DANTISCI	54 22 17
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Equatoris Altitudo	35 37 42
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Rursus Anno 1676 exeunte, maximam Stellæ Polaris Altitudinem notavit	56 48 20
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Et Aprili 1677, minimam	51 57 30
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Quæ iisdem Refractionibus, quibus Antecedentes, correctæ, veram Stellæ Polaris a Polo Distan- tiam, pro isto Tempore, tradunt	2 25 30
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Altitudinem denuò Ejusdem Stellæ Meridionalem minimam notavit	51 56 47
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Et maximam	56 47 42
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Ideoque Dantischi Latitudo Ei fuit	54 22 17
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Et vera Equatoris Altitudo	35 37 43
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eadem, nempe cum Ista quæ ex Observationibus
 Annorum 1652 & 1653. fuit inventa.

Maxima Solis Altitudo Solstitialis est	59 17 10
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a qua Refractionem subducendo, viz.	0 0 30
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H h

SOLIS

SOLIS Altitudo <i>Meridionalis</i> correctâ ad <i>Solstitium</i> erit	59	6	40
a qua denique si auferatur <i>Aequatoris</i> Altitudo, viz.	35	37	43
remanebit <i>Æclipticæ</i> Obliquitas	23	28	57
Ex ejus Observationibus Annorum 1652, 1657, & 1661, <i>Maximam</i> Solstitii Hyemalis <i>Altitudinem</i> meridionalem determinat	12	12	45
<i>Refractio</i> subtracta	0	3	48
<i>Minima</i> SOLIS Altitudo meridionalis correctâ	12	8	57
<i>Maxima</i> correctâ	59	6	40
<i>Tropicorum</i> Amplitudo five <i>Intervallum</i>	46	57	43
<i>Æclipticæ</i> Obliquitas, five Intervalli <i>Dimidium</i>	23	28	51 1/2
Anno 1672 Junii 20 ^{mo} , S. N. Dominus RICHER apud <i>Cayenne</i> Ostendit Pedum quoad <i>Radium</i> , Dioptris <i>Telescopicis</i> instructo, SOLIS <i>Limbi</i> inferioris, five tunc <i>Borealis</i> , Altitudinem <i>Me-</i> <i>ridionalem</i> observavit esse	71	11	40
Cui si addatur SOLIS <i>Semidiameter</i> , viz.	0	15	50
SOLIS <i>Centrum</i> habetur	71	27	30
<i>Refractio</i> autem ablata, viz.	0	0	20
<i>Idem</i> correctum remanet	71	27	10
Ideoque <i>Centrum</i> distat a <i>ZENITH</i>	18	32	50
Porrò Anno 1672, <i>Decembris</i> 20 ^{mo} SOLIS <i>Limbi</i> su- perioris, five tunc <i>Borealis</i> , Altitudo meridio- nalis erat	61	51	30
A qua <i>Refractionem</i> subducendo, nempe	0	0	30
remanet <i>Limbi</i> istius Altitudo <i>correcta</i>	61	51	0
& ablata SOLIS <i>Semidiametro</i> , viz.	0	16	20
restat SOLIS <i>Centri</i> Altitudo versus Aust. <i>correcta</i>	61	34	40
<i>Centri</i> istius Distantia a <i>Zenith</i>	28	25	20
<i>Centri</i> autem a <i>Zenith</i> Distantia versus <i>Boream</i> Junii 20 ^{mo} , viz.	18	32	50
<i>Tropicorum</i> Amplitudo five <i>Intervallum</i>	46	57	43
<i>Æclipticæ</i> Obliquitas, five Intervalli <i>Dimidium</i>	23	28	51 1/2
<i>Tabularum Astronomi-</i> <i>carum</i> , pag. 1.	Dominus de la HIRE maximam nobis exhi- bet SOLIS <i>Limbi superioris</i> , tunc <i>Borealis</i> , Al- titudinem meridionalem (quando SOL in <i>Solstitio</i> versabatur) deductam		

deductam ex pluribus Observationibus in *Observatorio Parisiensi* peractis ————— $64^{\circ} 55' 24''$

Refractione subtractâ, viz. ————— $0 \ 0 \ 24$

remanet istius Limbi *Altitudo* meridion. *correcta* $64 \ 55 \ 0$
a qua subducendo SOLIS *Semidiametrum*, viz. $0 \ 15 \ 50$

Residuum erit Centri *Altitudo* ————— $64 \ 39 \ 10$

Ejusdem a Zenith *Distantia* ————— $25 \ 20 \ 50$

Dominus de la Hire *Altitudinem Poli* apparentem in *Observatorio Gallico* statuit fore — $48 \ 51 \ 2$

A qua pro *Refractione* subducendo ————— $0 \ 1 \ 4$

Vera *Poli Altitudo correctâ* restat, viz. ————— $48 \ 49 \ 58$

Sed Dominus CASSINI *Refractionem* in eadem *Altitudine* tantum facit ————— $0 \ 0 \ 50$

At Dominus BOUCHER & Egomet ex accuratioribus *Ratiociniis* tantum fecimus ————— $0 \ 0 \ 42$

atque exinde consequetur, *Poli Altitudinem*, apud *Observatorium Gallicum*, 20 secundis majorem esse istâ Domini de la Hire *Computatione* nempe, $48 \ 50 \ 18$

Et *Aequatoris Altitudinem* esse ————— $41 \ 9 \ 42$

Quâ demptâ ab *Altitudine* meridianâ SOLIS *Solstitialis*, viz. ————— $64 \ 39 \ 10$

Aequatoris Altitudo $41 \ 9 \ 42$

Residuum erit *Eclipticæ Obliquitas*, viz. ————— $23 \ 29 \ 28$

Ex Georgii MARGRAFFII *Observationibus* apud novam Urbem Mauried in *Insula Americanâ Antonii Vaas*, in *Terra Brasiliensi*, peractis, amplo *Quadrante* cum nudis tantum *Dioptris*, secundum *Formam Quadrantis Tychoniani*, Centri SOLIS *Altitudo*

In *Solstitio Hyberno* $74 \ 39 \ 20$ In *Solstitio Æstivo* $58 \ 23 \ 20$

Refactio subducta $0 \ 0 \ 15$ *Refactio* subducta $0 \ 0 \ 30$

Vera *Cent. SOLIS Altit.* $74 \ 39 \ 5$ Vera *Cent. SOLIS Altit.* $58 \ 22 \ 50$

Zenithalis Distantia } $15 \ 20 \ 55$ *Zenithalis Distantia* } $31 \ 37 \ 10$

SOLIS in π } SOLIS in π *Bor.* } $15 \ 20 \ 55$

Eclipticæ Obliquitas $23 \ 29 \ 2$ in π *Aust.* $15 \ 20 \ 55$

Aust. Lat. novæ Mauried $8 \ 8 \ 7$ *Tropicor. Amplitudo* $46 \ 58 \ 5$

Eclipticæ Obliquitas $23 \ 29 \ 2\frac{1}{2}$

SOLIS

SOLIS *Parallaxeon* Applicationem consulto omisi, tam in Examinatione Observationum *Georgii Margraffii*, quam eorum Domini *Richeri*; quoniam adeo parvæ sunt ut vix percipi queant, vel *Margraffii* Organo nudis tantum *Dioptris* instructo, vel etiam Isto *Richeri* *Dioptra Telescopica* habente; quum istius *Radius* tantum fuit 6 Pedum. Si verò Considerationem prætermissem *Refractionum* in eorum Observationibus, tunc *Eclipticæ Obliquitas* deprehenderetur, Observationibus, sciz: *Margraffii* $23^{\circ} 29' 5''$ & *Richeri* $23^{\circ} 27' 28''$

Si *Tychonis* autem *Parallaxes* adhibuisssem, *Refractionibus* omisiss (quas evanescere pōnit ad Gradus 45 supra *Horizontem*) tum *Eclipticæ Obliquitas* esset secundum Observa-
 tiones *Margraffianas* $23^{\circ} 28' 5''$ & secund. *Richerianas* $23^{\circ} 27' 48''$

Sed Observationes tum *MARTIS*, in ρ ad Solem, tum *LUNÆ* *Dichotomiarum*, SOLIS evincunt *Parallaxin* esse valde exiguam: & quoniam Materia *ætheria*, per quam fiunt *Refractiones* Cœlestes, *Terram* undiquaque cingit, nullibi, præterquam in *Zenith*, cessare possunt *Refractiones*: quumque illæ, quibus utor, *Refractiones* ex propriis meis deducantur Observationibus, simul atque *Astronomorum* eminentiorum hujus ac Seculi præcedentis Observationibus congruant, maximam *Eclipticæ Obliquitatem* statuo $23^{\circ} 29' 00''$ prout eam ex optimorum *Astronomorum* Observationibus, cum meis congruentibus, deprehendi.

Eclipticæ Obliquitate sic inventâ, *ORBITÆ Terrenæ* Inæqualitatem definire tandem aggredior; in quo peragendo, ut *Refractionum* & *Parallaxeon* incertarum Perplexitates evitentur, Methodo utar multum diversâ ab Eorum qui hac in Re me antecesserunt, propriisque tantum meis observationibus, talem mihi Materiam suppeditantibus, qualem ex eorum observationibus frustra expectabant.

Multis ac reiteratis *Fixarum* observationibus, ARCUS MURALIS Errorem eundem remansisse inveni, a 12° , nempe *Februarii* ad 16^{am} *Decembris* Anni 1690, viz. $00^{\circ} 01' 30''$

Ac qualiscunque sit hic *Error*, istius Considerationi mea Methodo non adstrictus ero, donec maximam invenero *ORBITÆ Terrestris Equationem*.

OBSERVATIONES transcribam a me adhibitas in hac Indagatione, nullâ Ratione habitâ ad Castigationem *Errorum* Instrumenti, qui suo loco considerabuntur usuique applicabuntur.

ANN. CHR. 1690. Mense Dec. Syl. Vat.	Tempora per Horologium oscilatorium h m s	ANNO MDCXC.	Dist. a Vertice numerate. per Libras per Strus Diagonales, Cochlea.	
			o	Revolut.
2 Martii 7	0 5 57	SOLIS limbus primus transit, Centro	52 32	0 1190 57
	0 7 1	Centrum transit, remoto a Vertice	52 48	15 1196 67
	0 8 4	Limbus sequens transit Centro	52 31	40 1190 47
	0 8 40	proximus a Vertice	51 16	13 1184 58
	0 9 5	remotus a Vertice	52 48	20 1196 68
	6 19 37	Calx Castoris μ transit	28 51	45 654 0
	7 38 21	Procyon	45 30	0 1031 51
	41 27	Pollux	22 45	30 515 44
	10 6 39	Cor Leonis	38 1	45 862 5
8	5 48 5	Cornu Tauri Boreum	23 11	35 575 30
	36 41	Ultima Cinguli Orionis	53 37	40 1215 45
	6 15 26	Calx Castoris	28 51	40 653 94
12	0 3 2	SOLIS limbus primus transit, remoto per Nubem	50 49	75 1157 0
	5 10	Limbus sequens transit		
	6 9	proximus a Vertice	50 17	55 1139 93
	5 32 59	Sequens humerus Orionis	44 10	40 1001 62
	9 45 39	Cor Leonis transit	38 1	45 862 7
	56 34	Leonis	20 6	0 682 8
13	0 1 3	SOLIS limbus proximus a Vertice	49 54	10 1130 90
	2 26	primus transit Centro	50 10	20 1137 9
	4 36	sequens transit		
	4 48	remotus a Vertice	50 26	20 1143 10
	4 8 44	Pollucion	35 38	35 807 7
	7 13 10	Procyon	45 30	10 1031 5
	16 13	Pollux	22 45	25 515 36
	11 53 26	Virginis	50 25	30 1142 8
	12 15 18		51 18	45 1160 99
14	0 0 26	SOLIS limbus proximus a Vertice	49 30	40 1122 10
	1 2	remotus	50 3	0 1134 37
	1 50	primus transit Centro	49 47	0 1128 27
	2 54	Centrum transit proximus a Vertice	49 30	55 1122 10
	3 59	Limbus sequens transit, Centro	49 46	45 1128 10
	4 40	remotus a Vertice	50 2	50 1134 38
	5 10	proximus	49 30	40 1122 10
	4 39 52	Capella	5 51	30 123 69
	46 6	Orionis Pes lucidus Rigel	50 4	10 1361 54
	52 49	Cornu Tauri Boreum	23 11	40 525 30
15	5 53 11	Calx Castoris	28 51	50 654 8
	6 5 46	Lucidus Pes Geminorum	34 52	25 790 20
	17 42	Syrus	67 47	0 1536 68

ANN. CHA. 1690. Mense Die Styl. Vet.	Tempora per Horologium astronomicum h m s		ANNO MDCXC.	Diff. a Vertice per Linas per Strius Diagonales Cochlea.	per Linas per Strius Diagonales Cochlea.
9 Martii 14	6 56 11 7 8 56 11 59 9 37 12 44 40 48 8 13 11 4	Canis Minoris Procyon Pollux Cor Leonis Virginis		849 36 40 845 30 5 822 45 30 838 1 50 826 33 0 830 8 5 811 13 45	966 0 1031 49 515 43 860 8 601 44 583 6 1261 1
15	0 0 25 1 11 2 14 3 19 4 0 4 33 9 31 30 32 58	SOLIS limbus remotus primus transit Centro Centrum transit proximo Limbus sequens transit Centro remotus proximus Leonis Cor		49 39 30 49 39 30 49 7 10 49 25 45 49 39 35 49 7 10 53 14 10 438 1 40	1125 43 1118 30 1113 28 1118 15 1125 43 1113 24 753 14 862 4
<i>Septembris sequentis Diebus 7^{mo} & 8^{mo}, quando SOLIS Distantia meridionales a Zenith eadem fermè fuere ac fue- rant 14^{to} Martii proximo - præcedentis, Cælum Tempore meridiano Nubibus fuit obductum; adeo ut SOL apprime observari non poterat.</i> Veruntamen.					
9 Sept. 8 7 54 25	11 44 26 51 47 12 50 37 13 4 49	Aquila Lucida Piscium que sequitur Tunc Nubes.		α 43 24 0 λ 51 24 15 52 7 15 545 35 30 545 16 5	984 12 1164 98 1181 33 1093 61 1026 35
9	0 2 50 3 39	SOLIS limbus remotus primus transit, Centro Tunc Nubes densa.		50 30 35 50 15 0	1144 65 1138 89
10	0 1 55 3 24 4 40 5 33 6 13 6 50 8 6 28 11 41 12 4 14 48	SOLIS limbus proximus a Vertice primus transit, Centro remotus sequens transit, Centro remotus proximus Antares Martus Capricorni præcedens ad sequens ad		50 22 0 50 38 15 50 54 10 50 38 30 50 54 15 50 20 0 53 11 20 54 56 567 10	1141 45 1147 57 10 1147 54 1153 61 1141 48 1205 46 51472 14 101523 4
11	0 1 48 3 16 5 24	SOLIS limbus remotus primus transit proximus sequens transit remotus		51 17 25 51 1 30 50 45 15 51 0 55 51 17 30	1162 96 1156 39 1150 24 1156 15 1162 40
14	0 1 7 2 11	Reductio prius pondere. SOLIS limbus remotus proximus		52 27 25 51 55 20	1188 88 1176 72

Ann. Chr. 1690. Mense Die Spil. Fer.	Tempus per Horologium oscillatorium h m s	ANNO MDCXC.	Dist. a Vertice aequatoris.		Revol. Caeli.
			per Lineam Diagonalem	per Series Cochleas	
Sept. 14	0 2 40	SOLIS limbus primus transit, Centro	52 11 20	1182	82
	3 43	Centrum transit, Limbo remoto	52 27 35	1188	90
	4 48	Limbus sequens transit, Centro	52 11 20	1182	75
	5 32	proximus	51 55 30	1176	76
	6 6	remotus	52 27 40	1188	84
	17 17 47	Oriens	52 14 17	1230	47
	19 45	ultima Cinguli	52 36 20	1214	22
	22 50	humerus sequens	52 10 25	1201	56
	18 26 0	Spiras	52 46 45	1236	60
	19 8 45	Castor	18 58 20	429	61
	17 14	Procyon	45 30 5	1031	56
	20 17	Pollux	22 45 45	515	51
15	0 1 12	SOLIS limbus remotus a Vertice	52 51 15	1197	80
	1 52	proximus	52 18 55	1185	64
	2 33	primus transit, Centro	52 34 55	1191	68
	3 38	Centrum transit, remoto	52 51 10	1197	77
	4 41	Limbus sequens transit, Centro	52 34 45	1191	58
	5 12	proximus	52 19 5	1185	68
	5 45	remotus	52 51 15	1197	85
	6 57 3	Aquila	52 54 40	1199	12
	7 2 15		52 48 57	1109	40
	13 5		52 25 10	1210	64
	27 53		52 43 24	984	3
	29 2		52 14 20	1161	20
	9 7 22	Aquarii humerus praecedens	52 18 22	1322	21
	12 49 5	Piscium	52 33 10	1032	57
	50 6	Comae hujus	52 6 8	1045	25
	53 22	circiter	52 19 30	1121	85
	16 50 39	Oriens	52 60 3	1261	40
	19 22		52 45 27	1030	26
	17 7 5		52 2 2	1179	27
	11 22		52 54 55	1129	17
	14 6		52 14 17	1230	47
	16 1		52 37 15	1215	19
	29 8		52 44 10	1051	47
	34 47		52 18 51	654	3
	19 5 5	Castor	18 58 40	428	49
	18 32	Procyon	45 30 10	1031	62
	16 35	Pollux	22 45 50	515	45
16	0 1 3	SOLIS limbus remotus	52 14 45	1206	76
	1 42	proximus	52 42 40	1194	60
	2 29	primus transit, Centro	52 58 30	1200	61
	3 38	Centrum transit, remoto	52 14 40	1206	74
	4 37	Limbus sequens transit, Centro	52 58 30	1200	62
	5 11	proximus	52 42 45	1194	63
	5 48	remotus	52 14 50	1206	83
	7 6 43	Ogni	52 4 9	546	23
	9 25	Aquila	52 35 30	1210	81
	24 14		52 43 24	984	8
	25 21		52 14 10	1161	27
	43 57		52 53 11	1205	31
	10 36 27	Piscium	52 49 19	1117	51
	40 59		52 41 1	1156	47
	49 15		52 49 52	551	30
	52 11		52 51 54	1176	45

ANN. CHR. 1690. Mense Die Styl. Per.	Tempora per Horologium oscillatorium h m s	ANNO MDCXC.	per Lineas, per Series Diagonales, Cyclicas.
2 Sept. 19	7 32 55	Antinet manus	53 11 8 1205 51
15 34 22	15 34 22	Palutrium	53 38 35 807 74
16 35 57	16 35 57	Orionis	54 60 4 1361 51
52 22	52 22		52 52 2 50 1179 51
56 41	56 41		52 55 5 1199 30
59 23	59 23		54 74 17 45 1230 54
17 1 18	17 1 18		54 93 37 30 1215 34
14 26	14 26		54 10 25 1001 58
32 31	32 31	Geminorum	54 36 25 655 74
40 41	40 41		54 54 50 653 99
18 7 35	18 7 35	Canis Majoris Syrius	56 46 45 1536 57
20	0 0 45	SOLIS limbus remotus	54 46 25 1232 74
1 34	1 34	proximus	54 46 45 1229 50
2 12	2 12	primus transit, Centro	54 39 40 1236 17
3 17	3 17	Centrum transit, remoto	54 47 45 1241 84
4 21	4 21	Limbus sequens transit, Centro	54 39 15 1235 94
5 4	5 4	proximus	54 16 20 1239 53
5 41	5 41	remotus	54 48 35 1242 15
1 36 9	1 36 9	Arcturus transit	54 30 41 695 27
7 9 31	7 9 31	Aquila Lucida	54 32 2 984 0
10 39	10 39		51 12 20 1161 20
29 14	29 14		52 18 35 1209 89
8 49 0	8 49 0	Aquarii humerus antecedens	54 38 22 30 1323 11
9 23 31	9 23 31	humerus sequens	54 53 17 1207 66
10 21 36	10 21 36	Pisicium	54 49 19 5 1117 70
34 34	34 34		54 49 58 5 1130 51
44 31	44 31		54 51 54 45 1176 54
59 39	59 39		54 51 24 1164 88
21	0 0 43	SOLIS limbus remotus	55 11 35 1250 87
1 40	1 40	proximus	54 39 30
2 13	2 13	primus transit, Centro	54 56 56 1244 90
3 17	3 17	Centrum transit, remoto	55 18 30 1250 85
4 21	4 21	Limbus sequens transit, Centro	54 56 30 1244 75
5 3	5 3	proximus	54 39 40 1238 80
5 45	5 45	remotus	53 11 45 1250 98
1691		MDCXCL	
		Reducto pondere.	
2 Martii 8	0 1 6	SOLIS limbus remotus	52 31 25 1190 47
1 4 14	1 4 14	sequens transit, Centro	52 14 55 1184 11
5 30	5 30	proximus	51 59 15 1178 18
9 14 2	9 14 2	Hydra	52 45 40 1354 44
21 2	21 2	Cor	54 58 49 55 1333 45
9	0 0 10	SOLIS limbus remotus	52 8 5 1181 47
0 49	0 49	proximus	51 35 35 1169 24
1 41	1 41	primus transit	51 51 25 1175 22
2 44	2 44	Centrum transit, remoto	52 7 55 1181 40
3 50	3 50	Limbus sequens transit	52 61 51 20 1175 15
4 25	4 25	proximus	51 35 30 1169 24
5 1	5 1	remotus	52 42 7 55 1181 49
7 27 54	7 27 54	Procyon transit	54 45 31 10 1131 89
30 53	30 53	Pollux	54 42 46 35 515 78

ANN. CHR. 1691.	Tempora per Horologium oscillatorium	ANNO MDCXCI.		Dif. a Puncto aequinoctiali per Libram per Capricornum Diagonalem Cœlicam 0 2 77 Grad. Cent.	
Mense Die Styl. Vet.	h m				
9 Martii	9 10 00	Hydra	59 45 48	1354 48	
	17 0	Leonis	58 49 50	1373 48	
	16 13		58 13 12	1353 33	
♂	10 0 0 34	SOLIS limbus proximus	51 11 50	1166 18	
	1 16	proxime transit	51 28 20	1166 59	
	2 20	Centrum transit, remoto	51 44 10	1172 50	
	3 25	Limbus sequens transit, Centro	51 27 25	1166 11	
	4 0	proxime	51 11 50	1166 18	
	4 59	remotus	51 24 15	1172 48	
	6 10 42	Geminorum	34 33 15	790 58	
	7 23 51	Procyon	45 31 10	1031 93	
	26 57	Pollux	22 46 35	515 68	
	9 52 10	Leonis	58 2 55	862 51	
	11 34 41	Virginis	647 59 50	1087 75	
	12 26 0		51 15 0	1161 47	
♀	11 7 19 52	Procyon	45 31 10	1031 93	
	22 57	Pollux	22 46 35	515 68	

Hujus Anni *Æquinoctio* Autumnali, *Cælum* fuit *Nebulosum*; ideoque *Parum Observationum* fieri potuit *Tempore meridiano*, nec *Multum* quidem *Tempore Nocturno*.

Tycho Brahe, & qui, postea, indagarunt maximam *Orbita Terrena* Inæqualitatem, ex observatis meridionalibus *SOLIS* *Altitudinibus*, assumendo, nimirum, illius *Parallaxin Horizontalem* 3', nullasque *Refractiones* admittendo ultra 45 Graduum *Altitudinem*, maximam determinarunt *Æquationem* fore circiter $2^{\circ} 3' 0''$ inter quos *Longomontanus*, *Bulialdus* & *Wing* nostras.

Qui verò *Eas* diminuerunt ad *Semiminutum* aut minus, sicut *nostrates Dominus Horrox* & *Dominus Street*, *Æquationem istam* invenerunt tantum $1^{\circ} 59' 0''$

At *Illi* qui concedunt *Refractionum Effectus*, unà cum *Parallaxi* propemodum insensibili, semet ostendete, ultra 45 Gradus supra *Horizontem*, non *Majorem Eam* inveniunt quam $1^{\circ} 55' 0''$ ut *Dominus de la Hire* aliique: quam quidem *Quantitatem* Anno 1675 dudum determinaveram Ego, quando *eam* *Noctu* indagavi ex *Tychonicis SOLIS* a *VENERE* mensuratis *Distantiis*, & *Veneris* a *Stellis Fixis*.

Ad evitandos *Errores*, ex *Refractionum* incertarum *Assumptione* oriundos, *SOLEM* cum *FIXIS* comparatum habui

K k

ope

ope, scilicet, optimi *Penduli Oscillatorii* ac *Indicis Telescopici* super *Arcu* meo *Murali*, nullo Respectu habitò ad *Planeta Veneris* Observationes intermedias (quæ supervacaneæ sunt, quandoquidem a *Pendulo Oscillatorio* Tempus æquabiliter mensuratur; &, quòd ita se Res habebat, sublequentes evincunt observationes) quo multarum intricatarum & perplexarum Computationum operam superfluum evitavi, v. g.

Anno 1690 Martii 11 ^{mo} Leonis α	h ' "	quoque	h ' "
Meridian. transit ad	9 49 49	transit ad	10 0 44
12 ^{mo} —————	9 45 39	—————	9 56 34
Dies Sidereus —	23 55 50	—————	23 55 50

1690. Martii 12 ^{mo} Leonis γ	transit ad	9 56 34
14 ^{to} —————		8 49 8
—————		23 51 34
1 ^o —————		23 55 47

Martii 13^{to} Nullæ ex Stellis observatæ sunt quæ 12^{mo} sumebantur.

h' "			h' "			h' "		
1690, Martii 13 ^{to}	Procyon transit ad	7 13 10	Pollux	7 16 13	Mr γ	12 15 18		
14 ^{to}	—————	7 8 56	—————	7 11 59	—————	12 11 4		
	—————	23 55 46	—————	23 55 46	—————	23 55 45 1		

1690. Martii 14 ^{to} Cor Leonis	transit	h ' "	Martii 12 ^{mo}	h ' "
15 ^{to} —————	9 37 12	—————	Leonis α	9 45 39
—————	9 32 58	—————	15 ^{to} —————	9 32 58
—————	23 55 46	—————	2 —————	23 47 19
—————	—————	—————	1 ^o —————	23 55 56

Eodem Diei Siderei *Longitudo* ex SOLIS Transitibus in hunc Modum invenietur; viz.

modum invenitur, viz.	h	'	"	h	'	"
1690. Martii 14 ^{to} SOLIS Lim- } bus <i>primus</i> transit ad	o	1	50	Remotus ad	o	3 59
15 ^{to} —————	o	1	11	—————	o	3 19 ¹
Hinc <i>Dies</i> Solaris appar.	23	59	21 ¹	—————	23	59 20 ¹

Differentia

Differentia *Æquationis* *Dierum* inter 14^{m} & 15^{m}
 nempe. ————— 0 0 19
mediam constituit *Diei Solaris Longitudinem* 23 59 40

Differentia *Diei Solaris* & *Syderi*, nempe ————— 0 3 56
 subtracta, dat veri *Diei Syderi Longitudinem* 23 55 44

Hinc luculenter patet *Penduli motum* admodum æquabilem
 continuò fuisse a *Die* 12^{m} ad 15^{m} ; quandoquidem *Differen-*
tia inter *Transitus Pollucis, Cordis Leonis, Virginis* &
Limborum Solarium, eandem dant *Diei Syderi Longitudinem*
 intra minus, quam duo *Secunde*.

Media *Diei Syderi Longitudo* est ————— 23 56 4
Pendulum igitur aliquantulo nimis erat longum, & *Vibra-*
tiones efficiebat iusto pauciores quoad $18''$, spatio nempe 24
Horarum.

Fixarum diversarum, *Septembre* sequente ejusdem *Anni*
 observatarum, *Transitus* comparando, *Diem Syderum* ex
Orionis inventum habui, scilicet, inter *Diem Septembris*
 14^{m} & 15^{m} ————— 23 56 19
 ex α in *Orione* ————— 23 56 18
 ex *Procyone* ————— 23 56 18
 ex *Polluce* ————— 23 56 18

Et inter 15^{m} ac 16^{m} *Septembris*
 ex $\cdot$ in *Vulture* ————— 23 56 20
 ex α ————— 23 56 21
 ex γ ————— 23 56 19

Et inter 14^{m} ac 19^{m} *Septembris*.
 ex σ in *Orione* — $23^{\text{h}} 41' 36''$ ————— *Æqualia* 23 56 19
 ex ζ ————— 23 41 35 ————— *Æqualia* 23 56 19
 ex α ————— 23 41 36 ————— *Æqualia* 23 56 19

& inter 15^{m} ac 16^{m} *Septembris*
 ex duobus *SOLIS Limbis* ————— 23 56 18

Unde rursus elucescit *motum Horologii* fuisse æquabilem;
Vibrationes nempe faciendo plures circiter 13 quam oportebat,
 ex eo quòd ejus *Pendulum* paulò plus iusto esset
 certum.

Tempora *Transituum* non transcripsi; supervacanea etenim
 esset opera, atque *Lector* peritus in *Observationibus* antedictis

ea reperiet, ipseque Comparationes instituire potest, si operam navare velit.

Pariēs super quo *Arcus Muralis* locabatur, ad *Planum Meridiani* ædificabatur, ope Observationum de *Stella Polari* Anno 1675: at *Organum* ei non fuit affixum ante Annum 1689; post Quem deprehendi partem *Parietis Australis* quotannis subsedisse, atque Instrumenti *Errores* quotannis paululum crevisse. Modum inveniendi *Errorem* hæcenus monstravi, & in summâ notatur cuiusque *Paginæ Observationum* quæ hoc Organo capiebantur.

Licet autem *Arcus Muralis* *Errores*, in *Stellarum* a *Vertice Distantiis* ostendendis, facile hoc Modo detegantur ac determinantur; *Errores* tamen *Plani* non adeo facile manifestabantur ac statuebantur. Hi oriri possent vel a *Pariete* super quo locabatur *Organum* (si, nimirum, exactè non sit in *Meridiani Plano*) vel a *Polo Vitri Telescopici*, si non præcisè ponatur in *Centro Cella* in qua jacet.

Ideoquæ ut hæcûm duarum *Causarum* inveniantur *Effectus* conjunctim, 8^o ac 11^o *Aprilis* 1690, horâ matutinâ, ope boni *Quadrantis* ferrei, cuius *Radius* erat 4 plus *Pedum*, cui erant *Dioptra Telescopica* & *Limbus æneus* studiose divisus (propriâ meâ Manu ac Manu Domini *Sharp*) quo quarta, sive magis exigua, *Minuti* pars percipi poterat; hoc, inquam, *Organo* sex *Solis* capiebam *Altitudines*, *Temporaque Transituum Solarium*, super *Fila Arcus Muralis*, horâ meridianâ; measque *Observationes* de *Solis Altitudine* eodem Die post Meridiem repetens, *Tempora* notavi quando *Limbus*, horâ matutinâ observatus, ad easdem pervenerat *Altitudines* post Meridiem, in quibus eum observaveram horâ matutinâ. Hisce *Adminiculis*, *Tempus* per *Horologium* deprehendi quò *Centrum SOLIS* in *Meridiano* fuerat; illudque conferens cum *Tempore* quo *SOLIS Centrum* pertransiebat *Filum* meridionale mensurans, comperi, quòd ad 40. Gradus a *Vertice*, *SOL*, sive *STELLA*, meridionale *Filum* decussatim transiebat circiter 33" *Temporis secunda*, antequam verum *Meridianum* superaverat. Examen hoc meum frequenter postea redintegravi ad usque *Æquinoctium Autumnale*, atque exinde *Plani Errores* detexi in toto *Arcu* inter *Æquinoctialem* ac *Tropicum Borealem*.

Ut

Ut Error detegatur infra *Aequatorem*, interque *Tropicum* & *Stellam Polarem*, Differentias computavi inter *Adſcentiones Rectas* quarundam *Fixarum* eminentium, *Aequatori* ac *Tropico Boreali* interſcquentium, & *Rectas* *Adſcentiones* aliarum quæ interſunt *Aequatori* ac *Tropico Auſtrali*, ex intermutabilibus, nimirum, Earum *Diſtantiis*, *Sextante* obſervatis, atque *Diſtantiis* earum a *Polo*, ope *Arcûs Muralis* determinatis: Ex harum enim *Comparatione* cum *Differentiis* inter *Tempora Tranſituum* per, vel ſuper, *Filum Verticale meridionale* in *Indice Teſcopico*, *Error Arcûs in Gradu*, quem quælibet *Stella* pertranſiebat, perſpicuus evaſit. Atque ſic iſtorum *Errorum* complevi *Tabulam*, quâ uſus ſum Anno 1690 ad *Rectas* *Stellarum Adſcentiones* inveniendas: at hic probè notandum, quòd non opus ſit hæc *Tabulâ* quando *Stella* pertranſeunt *Meridianum*, in eadẽ propemodum a *Vertice Diſtantia*; nam in eodem *Gradu*, vel propè *Gradum* eundem, *Error*es penè ſunt iidem, vel ſaltem inſenſibiliter differunt.

Erroribus Plani Arcûs Muralis definitis, inquiſitum procedam ex *Obſervationibus* prius, citatis, quænam ſit maxima *Inæqualitas Orbitæ Terreſtris*, quis ſit ejus *Aphelii Locus*, & quæ ſint *Rectæ* *Fixarum Adſcentiones*? Quæ omnia eodem *Die* per *Arcum Muralem* obſervabantur.

Anno 1690 Martii 7 ^{mo} SOLIS	Limbus remot. a Vert.	52 48 20
	proximus —	52 16 10
	Ejus igitur Centrum —	52 32 15
1690 Septembris 15 ^{to} SOLIS	Limbus remotus —	52 51 15
	proximus —	52 19 5
	Ergo ejus Centrum —	52 35 10
Atque ſic Diſtantia Septembris 15 ^{to}	illam excede-	
bat Martii 7 ^{mo} , per —		0 2 55
Ideoque Septembris 15 ^{to} Sol remotior erat a primo		
Puncto ẽ quam fuerat 7 ^{mo} Martii præcedentis		
per —		0 7 21
Rectæque ejus Adſcentio ab eodem Puncto diſtabat		
per —		0 6 40
Paries, a quo Arcus dependebat, quotannis ſubſidebat: at a		
7 ^{mo} Februarii ad 16 ^{um} Decembris ſequentis, hoc Anno 1690,		
	L 1	illum

illum comperi immutatum mansisse, prout ex sequentibus patebit Observationibus.

1690. Februarii 7 ^{mo} , Geminorum	a Vertice	28	56	25	
	μ	28	51	50	
	γ	34	52	20	
	α	35	38	30	
Martii 7 ^{mo} Geminorum	μ	28	51	45	
Septembris 15 ^{to}	μ	28	51	45	
	19 ^{mo}	μ	28	51	50
Decembris 16 ^{to} Tauri	α	35	38	35	

Jam verò, ad definiendas SOLIS Rectas Adscensiones veras, duobus hisce Diebus, oportet examinare Tempora Transituum, tum SOLIS tum quarundam Fixarum notabilium, observata super Fila mensurantia in Indice Telescopico, ex Eorum Transcripto antea recensito, viz.

An. 1690. 7 ^{mo} Martii	h	'	"	h	'	"	SOLIS Centrum transit	h	'	"	o	'	"
	0	7	0	0	7	27	Calx CASTORIS	6	12	48	93	28	0
	6	19	37	6	20	16	PROCTON	7	31	23	113	10	40
	7	38	21	7	38	51	POLLUX	7	34	37	113	59	0
	41	27		42	5		Cor LEONIS	9	59	45	150	22	55
	10	6	39	10	7	13							

Dies fidereus, secundum Horologium erat tantum 23^h 55' 50".

ideoque Tempore 24 horarum, Pendulum pul-

labat minus Justo quoad 0 4 10
 quatenus metiretur Gradus 360, sive unam Aequatoris Revolutionem: cujus, sumantur Partes, Intervallis Transituum proportionales post Centrum SOLIS, easque ipsis Intervallis addendo; summæ variæ ita confectæ ac in Gradus & Minuta conversæ, veras tradunt Rectarum Adscensionum Differentias inter Solem, Meridianum, illasque Fixas.

Iterum 15^{mo} Septembris sequentis, SOLE Declinationem propemodum eandem possidente quam 7^{mo} Martii præcedentis habuerat, sequentes SOLIS & Fixarum Transitus capiebam per Filam verticale in Telescopio, viz.

Transitus correctus

	h	'	"	h	'	"	h	'	"	h	'	"
1690. 15 ^{to} Septemb.	0	3	37	0	4	4	SOLIS Centrum transit	X°				
	7	27	53	7	28	24	Lucida AQUILÆ	7	24	20	111	22 6
	16	50	39	16	51	2	ORIONIS Per lucidus	16	46	58	252	23 15
		59	52		59	52	Humerus finifler		55	48	254	36 5
	17	16	1	17	16	27	Cingulus ζ	17	12	23	258	45 30
		54	47		55	26	Caia CASTORIS μ		51	22	268	31 40
	19	13	32	19	14	2	PROCYON	19	9	58	288	13 45
		16	35		17	13	POLLUX	19	13	9	289	1 40

Diei *fiderei* Longitudo nunc erat ex Horologio 23^h 56' 40".
 Quod igitur pullabat 0 3 10
 minus quàm debuit spatio Diei *fiderei*; hinc Differentiæ inter
Rectas Adscentiones *Centri* SOLIS ac *Fixarum* erunt, Tempore
 meridiano, prout se habent in ultima Columna *Collationum*
 supra recensitarum.

Ex hisce Observationibus, *Differentias* indagavi inter *Rectas*
 Adscentiones SOLIS Tempore meridiano, Martii 7^{mo} & 15^{to}
Septembris sequentis; atque comperio SOLEM 7^{mo} Martii
 fuisse in *Antecedentia Coluri Solstitialis*, & 15^{to} *Septembris* in
eiusdem Consequentia; ut hic infra, viz.

	o	'	"	per Procyonem	per Pollucem	
7 ^{mo} Mart.	93	28	0	113	10	40
15 ^{to} Sept.	91	28	15	71	46	15

Summa 184 56 15--184 56 55--184 57 30 X^o *Afc. Rect.* 0

Vera SOLIS *Loca*, secundum *pristinam* meas Tabulas in
 Doctrina mea de *Sphæra* impressas, sunt

Martii 7 ^{mo} Meridie	κ	27°	20'	20"
atque 14 ^{to} <i>Septembris</i> sequentis	α	2	26	38
ideoque <i>Recta</i> ejus Adscentio Martii 7 ^{mo}		357	33	57
15 ^{to} autem <i>Septembris</i>		182	32	43

Rectarum Adscentionum *Differentia* 184 58 46

Media verò *Differentia Rectarum* Adscentionum,
 ex Observationibus derivata, erit 184 57 0

Quæ minor est ista ex *pristinis* meis Tabulis
 deducta, quoad 0 1 46

Atque hoc indicat *maximas* *Æquationes* mihi usurpatas nimis
 esse *exiguas* quoad unum circiter Minutum.

Sed

Sed ut certior fierem; Observationes Martii 14^{to} factas cum illis comparavi Septembris 15^{to} institutis, ac sic inveni.

	per Gemin. μ	per Procyonem	per Pollucem	
14 ^{to} Martii	87 7 20	106 49 50	107 38 0	
15 ^{to} Septembris	91 28 40	71 46 15	70 58 20	Media est 173° 36' 8"
Adscensio Recta	178 36 0	172 36 5	178 36 20	

Ex Tabulis meis antea memoratis, SOLIS Locus

14^{to} Martii 1690 Tempore Meridiano erat — 7 4 16 18

Rectaque ejus Adscensio — 3 55 7

Quæ ablata ex Rectâ illius Adscensione 15^{to} Septembris Meridie, viz. — 182 32 43

relinquit Differentiam Rectarum ejus Adscensionum inter 14^{to} Martii ac 15^{to} Septembris

Tempore Meridiano, viz. — 178 37 36

id est, majorem Differentiam quam fuit observata, quoad — 0 1 28

monstratque maximas ORBITÆ Terrestris Equationes esse majores quam in istis ponuntur Tabulis, quoad circiter Minuti $\frac{1}{2}$.

Rectarum SOLIS Adscensionum Differentia sic definita, inter 7^{mo} ac 14^{to} Martii atque 15^{to} Septembris sequentis, vera SOLIS Recta Adscensio, dicto 7^{mo} Martii ac 15^{to} Septembris facile determinabitur hoc modo, viz.

15^{to} Septembris, SOLIS a Vertice Distantia major erat, ideoque illius Declinatio Australior quam fuit 7^{mo} Martii per — 0 2 55

ergo Recta ejus Adscensio remotior erat a primo puncto ☉ per — 0 6 46

cujus Dimidium est — 0 3 23

quo Dimidio ablato ex Semidifferentia Rectæ Adscensionis Martii 7^{mo} ac Septembris 15^{to},

id est ex — 92 28 30

viz. — 0 3 23

restat — 92 25 7

quod Residuum ablatum a primo puncto ☉ relinquit

Solis Rectam Adscensionem 7 Martii — 857 34 53

at

at *Differentia* Rectarum SOLIS Adscensionum 7^{mo} Martii ac
15^{mo} Septembris hactenus determinata est ————— 184° 57' 0"

cujus Dimidium est ————— 92 28 30
si huic addantur ————— 0 3 23

Recta SOLIS Adscensio a Coluro solstitiali 15^{mo} Sep-
tembris statuitur ————— 92 31 53

vera igitur ejus Recta Adscensio tunc Temporis erit 182 31 53

Hinc verus SOLIS Locus 7^{mo} Martii, Meridie ☌ 27 21 48
ac 15^{mo} Septembris ————— ☌ 2 45 37

Rectarum SOLIS Adscensionum *Differentia* inter 14^{am} Martii
ac 15^{am} Septembris ex Observationibus circa Solem pro istis
Diebus reperitur, viz.

per *Calcem* CASTORIS ————— ☌ 178° 36' 0"

per PROCYONEM ————— 178 36 5

per POLLUCEM ————— 178 36 20

Media inter has *Differentia* ————— 178 36 8

At hanc *Mediam* subtrahendo a SOLIS Recta Adscen-
sione 15^{mo} Septembris, viz. ————— 182 31 53
————— 178 36 8

remanet ejus vera Recta Adscensio 14^{mo} Martii
Meridie ————— ☌ 3 55 45

quæ verum dat ejus Locum ————— ☌ 4 17 7

Sed ex Tabulis meis Solaribus vetustis, verus SOLIS Locus

7^{mo} Martii Meridie fuit ————— ☌ 27° 20' 48"

14^{mo} Martii ————— ☌ 4 16 18

15^{mo} Septembris ————— ☌ 2 46 47

Ex observatione autem

7^{mo} Martii ————— ☌ 27 21 47 + 0 59

14^{mo} Martii ————— ☌ 4 17 18 + 1 0

15^{mo} Septembris ————— ☌ 2 45 37 - 1 10

Quum verò SOLIS Loca ex *priscis* meis Tabulis sint propè
Æquinoctium Vernum tardiora quoad unum Minutum quàm
Loca ex observatis *Transitibus* derivata, tantoque velociora
propè Æquinoctium Autumnale; hinc patet *maximas* ORBITÆ
Terrænæ *Æquationes* non procul ab istis punctis factas, nimis
esse *parvas* quoad unum Minutum; quandoquidem Anno

1674, ex TYCHONIS observatis *Differentiis* inter *Rectam* Ad-
scensionem SOLIS, *Veneris* ac *Stellarum*, eas determinaveram
esse

tamen debent esse
sed accuratius illas mox definiam quum *Locum* APHELII Ter-
reni statuero.

Tali Processu ex Observationibus Annorum 1691 ac 1693
Rectam invenio SOLIS *Adscensionem* Tempore Meridiano
sic fore,

viz. 1691. Martii 9^{mo} 359 10 42

1693. Septembris 15^{mo} 182 48 42

Atque hinc ejus *Loca* ex Tabulis *Vetustis*. Ex *Observatione*

1691. Martii 9^{mo} Meridie 29 5 17 29 6 14 48 57

1693. Septembris 15^{mo} 3 1 54 3 1 54 3 1 54

Ut *verus* inveniatur APHELII Terrestris *Locus*, sequentes
adhibeo *Observationes* factas 16^{to} Junii Anno 1690, viz.

ad 0 3 33¹ Centrum SOLIS Filum Verti-
cale pertransit a *Vertice*
0 13 11 SYRIUS idem Filum pertransit
7 41 37 ARCTURUS
17^{to} Junii 0 13 32 SOLIS Centrum transit
0 9 2 SYRIUS
7 37 26¹ ARCTURUS

Hinc *Diei Sideris* Longitudo est
atque SOL transit ante *Arcturum* 16^{to} Junii ad
ac 17^{to} ad

ARCTURUS *Meridianum* pertransit ad duos Gradus ulterius
a *Vertice* distantes quam *Calx* CASTORIS & quoniam in eo
Loco Error parum ac tardè variat deorsum, nulla opus est
Castigatione in *Solis* & *Arcturi* Transitibus comparandis.

Stella hæc *Rectam* suam *Adscensionem* mutat centum An-
norum spatio tantum quoad 1° 12' 0"
idcirco

idcirco nunc Temporis inter *Finem* & sequentem

Septembrem tantum

Ita *Recta* ejus Adscensione *Septembris* deter-

minata fore

Medio *Junii* ejusdem Anni 1690 eam admittere

possunt

qua si auferantur prefata *Differentia* inter *Rectas* Adscen-

siones *SOLIS* & *Arcturi*, restant *SOLIS* *Rectae* Adscensiones

Tempore Meridiano,

viz. 16^{to} *Junii* 95° 52' 30" sed ex *Tabulis*

17^{to} 96° 34' 40"

atque *SOLIS* *Loca* Meridie ex *Tabulis* ex *Observatione*

16^{to} *Junii* 5 4 16

17^{to} 6 1 27

quæ *SOLIS* *Loca* ex *Observationibus* deducta, quum sint pro-

fectiora quam sunt ejus *Loca* ex pristinis *Tabulis* solaribus

computata, monstrant verum *Aphelii* Locum quoad circiter

profectiorem esse Loco isto quem in *Tabulis* prædictis poneram

Locetur ergo hic *Aphelii* Locus ad Initium

Anni in

& ab Oculis evanescent.

Pro ulteriori hujus Confirmatione, aliam similem Observa-

tionem examinato, *Junio* 1694 institutam

quum Die 15^{to} ad 10^h 28' 15" in *SERPENTARIO* a *Ver-*

nice pertransiebat

10 45 43 Caput *HERCULIS*

Junii 16^{to} ad 0 5 11 Centrum *SOLIS* tran-

siebat a *Vertice*

7 43 23 *ARCTURUS*

10 24 30 *Serpentarii*

10 41 58 Caput *HERCULIS*

Hinc Diei *Sidere*i Longitudo ex *Horologio* 23° 56' 15"

Differentia Temporum inter *Transitus*

SOLIS & *ARCTURI* 7 38 12

Differentia

Differentia <i>Recta</i> Adscensionis inter SOLEM & <i>Arcturum</i> _____	114 51 10
Qua subtrahâ de presenti <i>Rectâ</i> Adscensione <i>Arcturi</i> , viz. _____	210 25 43
Restat <i>Recta</i> Adscensio <i>Centri SOLIS</i> , <i>Junii</i> 16 ^{to} Meridie _____	95 34 33
Hinc <i>verus</i> Illius <i>Locus</i> est istâ Tempestate _____	5 7 0
Qui secundum <i>priscas</i> Tabulas est _____	5 6 6
Minor, quidem, quàm ex <i>Transitibus</i> observatis per _____	0 0 54
Quæ Differentia tollitur, si addantur 35 Minuta <i>Loco TERRÆ</i> in <i>Aphelio</i> secundum <i>priscas</i> Tabulas; ex quo præcedens con- firmatur Castigatio.	

Hujus Methodi pro determinando *vero* SOLIS *Loco* pecu-
liare Commodum in hoc consistit, quòd, nempe, huic Nego-
tio æquè benè inservit, quando Sol versatur propè *Colurum*
Solstitialem ac propè *Æquinoctialem*; nec ullam postulat
Cognitionem accuratam sive *Latitudinis* sive *Refractionum*
sive *Parallaxeon*: Errores ex *Plano* Instrumenti oriundos
solummodò notos esse oportet, tantâ quidem *Axephia* quantâ
fieri possit; qui sanè majori Certitudine definiri queunt quam
Parallaxes vel *Refractiones*.

Errores inveniens *Plani* decrecentes a 28 ad usque 60
Gradus super *Limbo*, existimare proclivis eram, Eos progredi
decrecendo ad usque *Horizontem*: sed Examine instituto per
Stellas in π , Rem aliter se habere deprehendi

Ut certior fierem, Experimenta cepi.

Ex SYRIO ad Grad. 67. & ex <i>Corde</i> HYDRÆ ad Grad. 59. a <i>Vert.</i> atque utrâque Stellâ eundem detexi Errorem viz. _____	0° 0' 23"
pro <i>Rectâ</i> SYRII Adscensione statuendâ, 14 ^{to} <i>Martii</i> 1690, tantùm adhibui _____	0 0 19;
adeo ut SYRII Adscensio <i>Recta</i> pro eo Tempore erit _____	97 53 10
Errores oriundi ex Stellis π collatis cum <i>Spica</i> <i>VIRGINIS</i> , atque ex stellis <i>CANIS Majoris</i> cum <i>Corde</i> HYDRÆ comparatis, ad 75 Gradus a Ver- tice, videntur esse quamproximè _____	0 0 22
idem nempe Error qui in <i>Syrio</i> reperitur ad 67 Gradus a Vertice _____	

Etiamsi

Etiam si ad 80 Gradus a Vertice, Error deprehendatur minor quam in *Syrio* per
& ad 85 Gradus a Vertice, minor est Error quam in *Syrio* per

Idcirco ad 75 Gradus a Vertice (ubi *Centrum SOLIS* pertransit quando in *Australi Tropico* versatur)

Error exurgit ad
vel ad summum ad

Et quando *SYRIUS* pertransibat Filum Verticale in *Telescopio* 16^{to} Decembris 1689 ad

at eodem die, Sol —

ergo *Differentia* inter Culminationes *SOLIS* & *SYRII*

Diei Sideris Longitudo ex Transitibus *Australis oculi TAURI* observatis 16^{to} ac 17^{to} ejusdem Decembris, erat secundum *Horologium*

Differentia igitur inter *Reclas* Adscensiones *SOLIS* & *SYRII* erit

& *Recla* *SYRII* Adscensione jam existente

Recla *SOLIS* Adscensio, 17^{to} Decembris Tempore

Meridiano erit

& consequenter *verus* ejus *Locus* in

at pristinae meae *Tabula Solares* cum *Locus* Tunc

temporis exhibent in

id est, Vero promotiorem per

Qui Error tolletur si a *Motu Medio* subducantur

& si *Aphelio* addantur (prout antea determinatum

est) nempe

N n PTOLEMEUS

paginâ 16th horum

Prolegomenon Linæ 18

PTOLEMÆUS enim a Tempore quo HIPPARCHUS suas finivit Observationes ad Antonini Imperium (cujus Imperio incunite suas fecit ipse PTOLEMÆUS) Annos computat

265. Quum verò PTOLEMÆUS suas fecerit Observationes circa Annum Christi 140, HIPPARCHUS suas finivit Anno ante Christum ————— 125

Cui si addantur Anni ————— 1694

Annorum summa est ————— 1819

At ibidem Linæ primæ,

patet HIPPARCHUM notasse primum suum Equinoctium Autumnale

Anno ante Æram Christianam 168

Cui si addantur Anni ————— 1694

tunc Annorum summa est 1862

PTOLEMÆUS verum *Apbelii* Locum statuit in π $5^{\circ} 30' 0''$ secundum (ut opinor) HIPPARCHI Determinationem peractam (ut conjectare licet) circiter Annum ante Æram Christianam 140 Cui si addatur Annus a Christo nato, viz. ————— 1694

patet, hac Computatione, spatio Annorum ————— 1834

Locum APHELII fuisse antrosum promotum quoad ————— $32^{\circ} 5' 42''$

ejusque Motum, unius Anni

Intervallo, invenietur fore. 0 1 3

quâ Quantitate assumptâ utor Ego.

Posteri, fortassis, proprias suas

Observationes cum *Tychonicis nostrisque* conferendo, *Illum* accuratiùs determinabunt. Interim tamen sum ad opinandum propensus Illius Motum esse tardiorẽ; atque si *Apbelii* Locus sub Stellis Fixis ponatur (prout Dominus *Street* illum stabilit in *Astronomia sua Carolina*) antiqua *Æquinoctia* ab *Hipparcho* notata meliùs representabuntur, quàm supponendo eum Locum sub Illis in *Consequentia* moveri; sicut cum *Astronomis* præteriti ac præsentis *Ævi* Ego quidem sum arbitratus.

Nec ALBATANI nec AZZACHELI Observationes adhuc in nostras pervenere manus, qui ambo *Orbita* Terrenæ Excentricitatem determinarunt (sicut & *Zodiaci* maximam *Obliquitatem* invenerunt, ut videre est horum Prolegomenon Pag. 27 & 28.) sed nihil hujus Generis nobis extat antiquius Observationibus BERNARDI WALTERI apud *Noribergam* 200 abhinc Annos peractis; e quibus XXIV transcripti, & cum propriis meis *Tabulis* contuli; ut cernerem quàm probè cum iis congruerent, & ut exindè mihi satisfaceret, quousque queam inniti Istitis quæ 1800 Annis peractæ sunt ante *Recentiorum* Observationes.

Latitudinem *Domicilii* BERNARDI WALTERI, Refractionibus meis correctam, deduxi ex propriis Ipsius Observationibus *Solstitialibus* (viz. $49^{\circ} 25' 50''$) tum etiam ex Meridionalibus *Centri SOLIS a Vertice* Distantiis, ejus Declinationibus Locisque in *Eliptica*, cum Illius *Locis* quæ a *Tabulis* meis derivantur super Observationum *Meridianis*, prout in *Libro de SOLE*, paginâ 189, patet. Maxima

Maxima Differentiæ inter *Loca* observata & computata contingunt propè *Æquinoctium Vernum*, quando Error est, viz.

Anno 1478 Martii 12^{mo} _____ - 6' 14"
 1491 Martii 13^{mo} _____ + 6' 8"

atque exinde concludi possit *medios* TERRÆ *Motus* rectè statui, ac Errorem consistere tantùm in Observationibus *Regulâ* suâ *Parallacticâ* factis. Denuò in *Autumnalibus* Observationibus Error deprehenditur, viz.

Anno 1478 Septembris 12^{mo} _____ + 0 3 52
 1479 eodem Mensis Die _____ - 0 4 39

atque hinc eadem deducetur Conclusio, *Motus* nempe *medios* inter *Walteri* nostramque *Ætatem* probè esse determinatos, id est, pro spatio *ducentorum* Annorum; totidem enim Annis *Illius* Observationes *meas* antecedunt.

In cæteris autem Observationibus, Differentiæ *Locorum* SOLIS ab iis deducæ & ex *Tabulis* computatæ, rarè aberrant *tribus* Minutis, aliquando in *Excessu*, aliquando in *Defectu*; interdum intra Minutum congruunt: ideoque eadem Conclusio ex iis Observationibus inferri potest.

Sed si concedamus *Motum medium* inter *Nos* & *Bernardum Walterum* excedere vel deficere quoad *duo* Minuta; exinde sequetur quòd *Annis* 1819 sive 1834 inter *Nos* & *Hipparchum* interlapsis, Error vix adsurgeret ad usque 20 integra Minuta; intra quam Quantitatem *Hipparchi* Observationes sibi invicem vix congruunt; nec equidem quidquam aliud nos expectare oportet: *Ptolemao* enim referente, *Hipparchus* suorum *Æquinoctiorum* certus fuit tantùm quoad 3 Diei.

Quid hæc de Re a PTOLEMEO sit expectandum, antea ostendi.

Nullæ ARABUM Observationes (exceptis istis *Albatanii*) ad nos adhuc emanarunt; quum verò *Albatanii* Observationes sint 800 ante nos *Annis* peractæ, & quum antea monstraverim illas æquè cum nostris *Tabulis* convenire, & cum istis *Bernardi Walteri*, vereri non oportet, quin *Loca* SOLIS ab *Albatanii* Observationibus derivata cælestibus congruant *Phænomenis* intra $\frac{1}{2}$ Gradus sive 6 Minuta: Nihilominus differre deprehenduntur a *Lociis* SOLIS *Ptolemaicis* ad eadem Tempora computatis, quoad Gradum integrum aut ultrà; atque hujus

Rei

Rei Rationem facile præbent, quæ ex Iplis operibus de Ipfo
suprà narrantur.

TERRÆ Matibus mediis sic stabilitis, unâ cum *Loco Aphelii*
Terrestris, determinatum procedo *Rectas Fixarum Adscensiones*
quæ observabantur Anno 1690 Martii 7^{mo} 13^h, 14^h ac 15^h.
& quæ Noctibus subsequētibz, viz. — 14^h, 15^h ac 16^h.
& eodem Anno *Septembris* — 20^{mo}
atque Anno 1691 Martii — 9^h ac 10^h
ac Anno 1693 *Septembris* — 15^h.

Hæc scripta fuere
9^o Novembris
Anno 1716.

Processum autem non repetam; Nimirum enim
Temporis tantilli infumeret quod mihi tam
profectæ Ætatis vivendum superest: solum hæc
tradam meorum Laborum Exitum, idest *Rectas Stellarum Ad-*
scensiones a diversorum ac singulorum Dierum observati-
bus deductas; atque Modum, quo Eas correxi, Lectorem
docebo.

RECTA ADSCENSIO.

Anno 1690 Martii 7 ^{mo}	Calcis Castoris —————	91	2	53
	Procyonis —————	110	45	33
	Pollucis —————	111	34	3
	Cordis Leonis —————	147	57	48
13 ^h	Oculi Tauri —————	64	32	20
	Procyonis —————	110	45	48
	Pollucis —————	111	33	48
	Virginis —————	181	1	53
	—————	186	31	8
14 ^h	Capella —————	73	23	48
	Orionis p —————	74	55	18
	Cornu Tauri Borealis ———	76	40	3
	Geminorum —————	91	3	23
	Syræ —————	97	52	18
	Canis Minoris p —————	107	34	33
	Procyonis —————	110	45	53
	Pollucis —————	111	34	3
	Cordis Leonis —————	147	57	33
	—————	150	42	53
	————— p —————	173	19	23
	Virginis —————	186	30	43

Martii

RECTA ADSCENSIO.

Anno 1690 Martii 15 ^{to} Leonis		147	35	18
Septembris 14 ^{to} Meridie SOLIS		181	37	45
Orionis		80	47	45
		81	16	45
		84	34	45
Canis Majoris		97	51	25
Geminorum		111	34	35
15 ^{to} Meridie SOLIS		182	31	53
in Vulture d		286	01	3
		287	27	3
		290	9	13
		293	53	59
		294	10	43
Aquarii		318	47	3
Piscium		14	23	3
Comes		14	39	23
		15	27	23
Orionis		74	55	8
		77	7	58
		79	3	13
		80	48	33
		84	55	50
Geminorum		91	5	33
Canis Minoris		110	45	38
Geminorum		111	33	33
16 ^{to} Meridie, SOLIS Ascensio Recta ex				
Observatione Diei præ-				
cedentis deducta		183	26	4
Rostri Cygni		289	37	23
in Vulture		290	10	29
		293	54	24
		294	10	20
		298	49	0
Piscium		342	1	47
		343	12	19

16 ^{to} <i>Piscium</i> γ	_____	345 16 44
"	_____	347 46 4

Differentia Rectarum SOLIS Ascensionum inter
15^{ma} & 20^{ma} Septembris, secundum Tabulas
meas Solares, est _____

Quæ addita *Recta SOLIS Adscension* hactenus determinatæ, pro 15th *Septembris*, Tempore Meridiano, viz

*Rectam Illius Adscensionem constituit 20^{mo} Septem-
bris Meridie, viz.* _____

Hinc ex Observatione *Noctis* proximo-sequentis *Sept. 20.*

ADSCENSIO RECTA.

<i>Arcturi</i> —————	210	23	14
<i>Rostri Cygni</i> —————	289	33	0
<i>in Vulture</i> α —————	293	54	39
β —————	294	10	49
γ —————	298	49	24
<i>Aquarii</i> α —————	318	48	54
β —————	327	28	44
<i>Piscium</i> α —————	342	2	4
β —————	345	17	39
γ —————	347	46	54
δ —————	351	34	44

Omnes hæc *Adscensiones Rectæ* quum deriventur ex Observationibus ad *binæ* *Æquinoctia* Anni 1690 factis, post debitas Castigationes exacte ad *Solstitium Intermedium* admitti possunt.

Ex Observationibus ad *Aequinoctium Verum* institutis
STELLARUM sequentium ADSCENSIONES RECTAE sunt determinatae

ADSCENSIO RECTA.

Anno 1691 Martii 9 ^m	<i>Procyonis</i>	110° 46' 40"
	<i>Pollucis</i>	111 35 25
	<i>Cordis Hydrae</i>	138 6 50
	<i>Cordis Leonis</i>	147 58 55

Anno

ADSCENSIO RECTA.

		°	'	"
Anno 1691 Martii 10 ^{mo}	Calcis Castoris —————	94	58	55
	Procyonis —————	110	47	5
	Pollucis —————	111	35	45
	Cordis Leonis —————	147	58	55
	Virginis β —————	173	40	0
	γ —————	186	31	30
Anno 1693 ad Æqui- noctium Autumnale Sept. 15 ^{mo}	in Vulture β —————	292	54	45
	α —————	293	56	25
	γ —————	295	3	10
	δ —————	298	51	30
	Pegasi Os ϵ —————	322	16	45
	α —————	342	8	10

TYCHO BRAHE *duodecim* Observationum Paria confert, respectu Distantiarum SOLIS a Venere interdiu, & a Stellis noctu; eo Consilio ut Rectam Adscensionem Stellæ *Lucida* in *Ariete* determinaret; quibus aliquando suas invenit Determinationes quoad 16 Minuta *maiores* aut *minores* quàm aliàs: quandoquidem in mea Disquisitione, Loca definivi *Fixarum* 40, atque istorum Locorum haud pauca ex Diverforum Dierum Determinationibus, nullâ habita Ratione ad *Observatorii* Latitudinem, ad *Refractiones* vel *Parallaxes*; adeo ut *unius* Minuti Differentia raro accidat in hisce diverforum dierum Determinationibus.

Atque hoc quidem faciendi Facultatem nactus sum, ope *Horologii oscillatorii* & *Arcus Muralis* accurati; nam absque exactâ Temporis Mensurâ (quam Horologium *oscillatorium* Nobis præbet) ac sine Artificio *Arcus Plano*, impossibile fuisset, quâvis Machinatione, determinare Differentias inter Stellarum *Rectas* Adscensiones ad eam usque *Axe* quam hisce Instrumentis lucrati sumus.

Rectis hisce Adscensionibus ita definitis, harum singularum Stellarum *Distantia* a *POLO Mundi* facile erant peractæ, nimirum *Complemento* Latitudinis addendo *observatam* uniuscujusque Stellæ a *Zenith Distantiam*, ab Instrumenti *Erroribus* & *Refractionibus* correctam, atque ad *Initium Anni* 1690 reductam: Illarum a *POLO Distantias* hic non tradidi, quoniam in

In suis Pro-
gymnasticis.
a Pagina 157
ad Pag. 193

in *Catalogo* continentur, Loco quidem hiſce magis idoneo, ex quo facillimè tranſcribi poſſunt.

Ab *Eclipticæ* CONSTELLATIONIBUS ſum auſpicatus, quæ *prima* in Conſpectum noſtrum veniſſe poſt SOLIS Occaſum, Menſibus *Octobris* ac *Novembris* 1689. Hæ fuere *Aquarii* Partes remotiores, atque *Piſces*, *Serpentarius*, *Cetus* & *Pegaſus*; & quum omnes Conſtellationes *Eclipticales* ſemel perluſtraſſem, ſingulas captavi Occaſiones ſemet offerentes, ad promovendas meas Obſervationes in Conſtellationibus *Auſtralibus*, potiùs quàm in *Borealiſibus*; quoniam illas magis incommodas deprehendi: Infirmiſſimæ enim, quæ Senectutem concomitantur, mihi obrepentes, ſentire incipiebam; *Cælumque* ſuperiùs frequenter erat ſerenum, quum ad *Auſtrum* caliginofum eſſet ac nebulofum: quamobrem, poſt *ECLIPTICALES*, proximò abſolute ſunt *Conſtellationes AUSTRALES*, ac immediatè poſt illas in meo locantur *Catalogo*; *BOREALES* autem, quæ noviffimè ſunt obſervatæ, ultimo Loco ponuntur.

Atque ſicut in *Ecliptica*, ita in *Auſtraliũ* & *Borealiũ* Conſtellationum Claſſibus, He primæ locantur quarum *Rectæ* Adſcenſiones minimæ ſunt; Idemque Ordo in unaquaque *Conſtellatione* ſervatur: in quem ordinem Me induxit mea obſervandi Methodus, eumque maximè Naturalem & congruum eſſe Quivis percipiet.

Quotidianas *Stellarum* in ſingulis Conſtellationibus *Obſervationes*, in ſpeciali *Libro* huic Rei deſtinato, collegi; illaſque *Sextante* factas ſub ejuſdem *Nomine*, eodemque *Ordine* quo ſunt peractæ: in quo *Libro* earum a *POLO* viſibili *Diſtantias* definivi, *Rectasque* Earum Adſcenſiones ab iis derivatas: ac poſtea in *aliũ* *Librum* digeſſi *Polares* *Diſtantias* præſatas, *Rectasque* Adſcenſiones ſic definitas ab *Obſervationibus* quotidianis huic *Libro* inferui in *Synopſes*; ubi Omnes ſimul Conſpectui patebant: atque ſic *plurimarum* *Stellarum* *Rectas* Adſcenſiones & a *POLO* *Diſtantias* iterum ſæpiuſque determinatas lucratus ſum, & inter eas deprehendi quaſdam minutas *Differentias*. Ut autem hæc *Differentias* caſtigandas curarem.

Ex intermutualibus *Fixarum* *Diſtantiis*, *Sextante* antehac obſervatis, & hætenùs impreſſis, cum Earum a *POLO* *Diſtantiis*, *Calculum Differentiarum* inſtitui ipſe inter Earum *Rectas* *Adſcenſiones*; & ne aliquod obreperet Erratum, effeci ut

Famuli

Famuli mei *Computationes* semper repeterent : atque sic Opere meo proprio vel ita castigato vel stabilito, *verisque* Stellarum Rectis *Adscensionibus* determinatis, operis Exitum *Synopsisibus* meis inserui ; & ita primo videbam Intuitu, quales erant secundum *Transitus* ARCU *Murali* singulis quibusdam diebus successivè notatos, aut quales etiam erant ex *Distantiis* SEXTANTE *observatis*.

Ex *Synopsisibus* hisce, primi *Catalogi* minores deducuntur, qui inter mea reperientur Scripta ; ubi *Fixarum* Rectæ *Adscensionis*, respectu Temporis, in *primâ* consistunt COLUMNA ; *Alterâ* Illarum *Distantias* a *Zenith* monstrat, et Earum *Magnitudines* in ultimâ ponuntur.

Tandem STELLARUM in *Eclipticalibus* & adjacentibus *Constellationibus* principalium Rectis *Adscensionibus* ac *Distantiis* determinatis ; Anno illo exeunte, Considerationi incubui de Modis commodissimis & expeditissimis pro derivandis Earum *Longitudinibus*, & *Latitudinibus*, a Rectis, nempe Earum *Adscensionibus* ac *Distantiis* a POLO. Methodus vulgaris molesta nimis & perplexa mihi visa est ; at Animi Intentione modicâ, sequentem adinveni, quæ expeditior erat & Erroribus minùs obnoxia.

FIGURA prima in Secundi Voluminis Appendice folio 17^{mo} representet *Stereographicam* SPHERE *Projectionem* super Plano *Eclipticâ*, e ejusdem *Polum*, τ σ π ω ipsam *Eclipticam*, ϖ ϵ ζ Colurum *Solstit.* & τ ϵ π Colurum *Æquinoc-tialem*. Sit P. Globi Polus *Arcticus*, σ τ π ω *Equator*, Sitque S Locus Stellæ *Australis*, sicut, τ Locus Stellæ *Borealis* *Latitudinem* habentis, in eodem *Circulo* Rectæ *Adscensionis*, in ejus duntaxat *primò Quadrante*.

Ducatur *Circulus* Rectæ *Adscensionis* P σ S, per stellam transiens S, vel σ , & *Eclipticum* secans in Puncto L. Tunc a POLO *Eclipticâ* e ad *Loca* Stellarum in σ & S, ducantur Rectæ e σ , & e S quarum una secat *Eclipticam* in π , Altera in p.

Jam verò inter *Æquatorem* τ r, *Eclipticam* τ L & Rectæ *Adscensionis* *Circulum* P s, *Triangulum Sphæricum* τ L r *Rectangulum* ad r formatur ; in quo dantur Angulus L τ r, *Eclipticæ* *Obliquitas*, & *Basis* τ r, Rectæ Stellæ *Adscensio*, cum Angulo Recto ad r.

P p

Ut

Ut inveniatur τ L, primò Arcus *Ecliptica* interceptus inter primum punctum *Arietis* & Stellæ Circulum Rectæ Adscensionis, quem appello *Longitudinem Competentem*: 2^{do} Angulus τ L r, *Ecliptica* Angulus & Stellæ Meridianum. 3^{to} L r *Distantia* Longitudinis *Competentis* a Mundi-Polo, quæ facilibus hisce proportionibus obtineri poterunt.

1. Ut *Co-sinus* Obliquitatis *Ecliptica* τ L r,
Ad Radium,
Ita *Tangens* Rectæ Adscensionis Stellæ ab *Æquinociali* Coluro numeratæ τ r,
Ad *Tangentem* Longitudinis *Competentis* ab eodem Coluro computatæ L r.
2. Ut Radius,
Ad Sinum Obliquitatis *Ecliptica* L τ r,
Ita *Co-sinus* Rectæ Adscensionis Stellæ ab *Æquinociali* Coluro numeratæ τ r,
Ad *Co-sinum* Anguli *Ecliptica* ac Meridiani τ L r.
3. Ut Radius,
Ad *Tangentem* OBLIQUITATIS τ L r,
Ita Sinus Rectæ Adscensionis Stellæ ab *Æquinociali* Coluro computatæ τ r,
Ad *Tangentem* Declinationis *Competentis* Longitudinis Stellæ L r.

Quæ si cadat in primum Semicirculum *Ecliptica*, sive inter τ , & ∞ , ejus Complementum ad 90 Gradus erit æquale P L, nempe *Distantia* dicti puncti *Competentis* Longitudinis a Globi Polo boreali: at si *competens* Longitudo in alterum *Ecliptica* Semicirculum cadat, sive inter ∞ & τ ; tunc 90 Gradus, *Arcui* præfato sive *Declinationi* L r additi, veram efficiunt *Distantiam* PL dicti *Puncti* a Polo Boreali.

Et PS=PL=LS, & PL-P σ =L σ , Meridiani *Arcui* inter Stellam, & *Eclipticam* intercepto.

Si autem *Distantia* Stellæ a Polo PS, major sit *Distantia Competentis* Puncti ab illo L, sive P L, tunc *Australis* erit & interceptus *Arcus* PS, & Stellæ quoque Latitudo.

Sed

Sed si Stellæ a Polo Distantia (sicut $P\sigma$) minor sit *Distantia* puncti Longitudinis *competentis* L a Polo P , tunc *Borealis* erit *Arcus interceptus*, & consequenter Stellæ *Latitudo*.

Supponamus *duas* Rectas Lineas $e\sigma$, & eS representantes *duos* Longitudinis *Circulos* per *duo* Stellæ *Loca* transeuntes, ad σ in *Declinatione Boreali*, usque ad S *Australe* deduci; tunc enim *duo* alia *Triangula Spherica* nobis sunt formata, viz. LSp , & $L\pi\sigma$ *Rectangula* ad p & π , in quibus dantur,

1^{mo} *Angulus Eclipticæ ac Meridiani* $pLS = \pi L\sigma$.

2^{do} *Arcus interceptus* LS , vel $L\sigma$; ut inveniantur pS , vel πS Stellæ ab *Ecliptica* *Latitudo*, atque Lp , vel $L\pi$, *Longitudinis* nempe *Prosthaphæresis*, quæ his proportionibus indagantur, viz.

Ut *RADIUS*,

Ad *SINUM Anguli* quem *Meridianum* facit cum *Ecliptica* pIs vel $\pi L\sigma$,

Ita *SINUS Arcûs Intercepti* Ls vel $L\sigma$,

Ad *SINUM Longitudinis* Stellæ pS vel $\pi\sigma$.

& rursus Ut *RADIUS*,

Ad *Co-SINUM Anguli Meridiani & Eclipticæ*,

Ita *Tangens Arcûs Intercepti*,

Ad *Tangentem Prosthaphæreseos Longitudinis*.

Atque hic notandum, quòd, 1^{mo} Quando *Ascensio Recta* major est *Gradibus 270*, vel minor *Gradibus 90* & *Arcus interceptus* $\left. \begin{array}{l} \text{ad Boream} \\ \text{ad Austrum} \end{array} \right\}$ *Prosthaphæreseos* $\left. \begin{array}{l} \text{additus} \\ \text{subtractus} \end{array} \right\}$ *Competenti Longitudini*, veram efficit *STELLÆ Longitudinem*. Sed

2^{do} Si *Ascensio Recta* major sit *Gradibus 90* & minor *Gradibus 270*, & *Arcus interceptus* $\left. \begin{array}{l} \text{ad Boream} \\ \text{ad Austrum} \end{array} \right\}$ *Prosthaphæreseos* $\left. \begin{array}{l} \text{subtractus} \\ \text{additus} \end{array} \right\}$ a *Competente Longitudine*, veram tradit *Stellæ Longitudinem*: cujus *Rei Ratio* ex *FIGURA* liquebit.

Porrò notandum, quòd quum *Arcus interceptus* major sit *Gradibus 90*, tunc *Prosthaphæresis* etiam *Gradus 90* superabit.

Ope *trium primarum* *Proportionum* harum construi possunt *Tabulæ* ad *tria* hæc *Requisita* monstranda, id est,

1. *Angulos*

1. Angulos *Eclipticae* ac *Meridiam.*
2. Distantiam *Puncti* Longitudinis *Competentis* a *Globi Polo Boreali.*
3. Ipsam *Competentem* Longitudinem congruentem singulis Gradibus (vel 10 Minutis) *Rectae Adscensionis*, prout usque ad *Secunda*, notantur in *Tabulis subsidiariis*, e quibus excerpti queunt vel Inspectione solâ, vel facili proportionalitatis Praxi, si opus sit.

Anno 1695 quum meas absolvissem Tabulas *subsidiarias*, omnia hæc Requisita præbentes, atque deprehendissem sufficientem mihi esse Observationum Copiam, pro rectificandis *Locis* plerarumque Stellarum in Constellationibus *Eclipticalibus*, Tabulas hæc transcribendas curavi; easque una cum *Rectis* Adscensionibus & a *Polo Distantiis*, Stellarum, duntaxat, ad duas vel tres Constellationes pertinentium, nisi ad Dominum *Lucam Leigh*, tunc apud villam *Bakewell* in agro *Derbensi* degentem, 120 Millia Passuum *Anglicanorum* ab OBSERVATORIO meo distantem; ut ab iis derivaret veras Earum Longitudines & Latitudines, quum illum ad hoc præstandum conduxissem.

Mihi autem certò constabat, quòd ubi tot, tamque longæ Computationes erant peragenda, quamvis, hac Methodo, multum Incertitudinis & periculi Erroris, sive Hallucinationis, adimissem; Nullius tamen Operationi singulari innitendum duxi: quamobrem hoc munus injunxi Domino *Jacobo Hodgsono* tunc temporis uno ex meis Domesticis (nunc verò in Illustri *Scholâ Hospitii* *Ædis Christi* apud *LONDINENSES Matheseos Professore* dignissimo) ut, scilicet, Stellarum earundem *Loca* eadem Tempestate hic mecum recomputaret.

Et postquam a Domino *Leigh* operationem suam peractam accepi, illam cum Domini *Hodgsoni* Operatione conferendo, ex Earum Congruentiâ facilè perspectum est, *Quanam Computationes erant Verae*, sicut ex Earum Discrepantiâ *Quanam erant Erroneæ*; easque Operationes repetendas ac emendandas curavi.

Absque hac Cautelâ, plurimos Errores evitasse, fuisset impossibile; hæc, autem, Certitudinem optatam sum assequutus; nam fieri omninò nequivit, ut duo homines, 120 Milliarum Intervallo distantes, ad me deludendum simul concurrerent.

Interea

Interea dum Dominus *Leigh* FIXARUM Longitudines & Latitudines computabat ex *Reclis* Earum Adscensionibus ; ad *Distantiis* a POLO, *Tabulas* computandas curavi, quæ *veras*, monstrabant Longitudines & Latitudines, singulis congruentes Gradibus *Reclæ* Adscensionis & unicuique Gradui *Arcus* *Quarti* ab *Uno* ad *Decem* ; quæ necessariae erant pro definiendis *veris* Longitudinibus & Latitudinibus LUNÆ ac cæterorum *Planetarum* ex Observationibus, Noctu vel Interdiu, *Arcu* *Murali* peractis : in quo peragendo utebar exiguo *Locorum* *Fixarum* *Catalogo*, ex istiusmodi observatis *Distantiis* deducto, quales meo *Sextante* assequutus eram, & Initio Anni 1686 adaptabantur.

Præter hæc *Tabulas subsidiarias*, eodem Tempore *aliæ* sunt Computatæ quæ monstrabant *Reclæ* Adscensiones ac Declinationes, ad singulos Longitudinis Gradus, & unumquemque Gradum Latitudinis *Quantum* ab *Ecliptica*, tam versùs *Boream* quàm *Austrum* : quarum *Differentiæ* indicabant *Reclæ* Adscensionum ac Declinationum *Variationes* ; dum Stellarum Longitudines quoad *unum* Gradum crescebant, nempe, a Latitudinis 0° ad 60° Gradus tam ad *Boream* quàm ad *Austrum* : statuiam igitur ut simul cum iis imprimantur, ut illi quibus erit Facultas, sive Ansa, utendi *Catalogo*, vel construendi *Reclæ* Adscensiones pro Temporibus *futuris*, *Variationes* ab iis derivent. Dominus *Sharp* per singulos 5 Gradus Eas extendit, usque ad Gradus 90 ; atque ex iis, suâ Methodo *Interpolationis*, eas composuit ad unumquemque Gradum *Reclæ* Adscensionis ac Declinationis, quæ unâ cum meo *Catalogo* imprimuntur ; quæque *Reclis* Earum Adscensionibus ac Declinationibus inveniendis etiam inserviunt, ex *datis*, nimirum, Stellarum Longitudinibus & Latitudinibus.

Istarum Tabularum *usum* confiteor esse molestum, non magis tamen quàm *aliarum* ejusdem generis. *Alio* etiam *Medio* usus sum pro iis inveniendis tam benè cum hisce Tabulis congruente, ut *Differentiæ* rarò 10" excedere deprehenderim ; quod pro unius *Centuriæ* spatio sat enucleatè computatum est. Quibus autem est Animus ad summam progredi *Auxiliis*, uti poterint iis quæ, unâ cum Tabulis meis *subsidiariis*, Typis mandabuntur.

Stellas autem quod attinet quæ Globi *Polis* & *Eclipticæ* interjacent, optimum erit Earum *Reclæ* Adscensiones ac Declinationes

Declinationes computare ex Longitudinibus pro Futuro institutis; quarum *Recta* Adcensionones retardantur, five decrefcunt dum interea crefcunt perpetuo. Earum Longitudines, atque hoc peregi in plurimis Stellis Draconis & Ursæ Minoris, in Catalogo, ubi hoc notantur signo  Quoniam verò *Stella Polaris* Distantiam suam inæqualiter mutat, *Rectam* Huius Adcensionem ac Distantias a *Polo* computari ad Alterationem quorumlibet 10 Minutorum Longitudinis, pro primo Gradui, atque Dominus *Sharpius* pro secundo. Easque deprehendo sicut in ejus *Tabula* inferuntur ad Finem horum *Prolegomenon*.

Dum *Tabula* componebantur pro faciliori Calculo *Locorum* quæ a *Fixis* tenentur, harum *Observationes* promovebantur, nulla *Occasione* omiffa, quamdiu fanitas ac alia negotia necessaria me patiebantur.

Constellationum interim *Tabulas* five *Mappas* formare aggressus sum etiam, in quibus totaliter a *Bayero* discedere necessarium mihi visum est, de quo *Hevelius* conquiritur, quod *Omnia* turbaverat, quanquam nihil figillatim de Illo memorat.

Nullus Auctor probatus mihi occurrit Nobis indicans, quisnam primus *CONSTELLATIONES* in hæc *Formas* redegerit in quas disponuntur in *Ptolemæi* Catalogis; sed ex iis quæ nobis narrat *septimi* Libri *ALMAGESTI* Capite Quinto, de *Constellationibus* in *Sphæra solida* fabricandis, facile elucescit, istas *Constellationum* *Imagines* five *Formas* *HIPPARCHI* Temporibus fuisse Antiquiores sed paululum immutatas: dicit Ex Interpretatione enim *PTOLEMÆUS* *Formationibus* quoque ipsis *Georgii Trapezantii* per singulas *Stellas* non eisdem penitus (quibus & *prisci*) utimur, sicut neque Illi Antiquissimorum, qui ante *Ipsos* fuerunt, *Formationibus* uti sunt: multis ergo in *Locis*, accommodatiora ipsis *Figuris* attribuentes vocabula, *Priscorum* usum immutavimus sicut, verbi gratia, *Figuras* quas *Hipparchus* in *Humeris Virginis* locat, Nos in *Costis* ejus sitas esse dicimus; quoniam *Distantia* Earum ad *Stellas*, quæ in *Capite* sunt, major apparet quam ad *Eas* quæ in *Extremitatibus* *Manuum* collocantur; hoc autem sicut *Costis* accommodatur, ita penitus alienum ab *Humeris* est: facile tamen per ipsam conscriptorum *Locorum* *Comparisonem* diversa hujusmodi *Stellarum* *Signationes* intelligi possunt.

Insuper

Infuper Nobis refert CHALDEORUM Observationes peractas
fuisse Anno *ante xadibic* 82^{us}

Anno Nabonassari 519^{us}

five Anno ante Æram Christianam 228

ubi memorantur *Stella* in *Australi VIRGINIS Humero*, five
Stellæ maximè *Boreales* in *SCORPIONIS Fronte*, in *Appulsu* &
ad illam Stellam; qui *Appulsus* observabatur

Anno Nabonassari 476

five ante Æram Christianam 271

interim paulò Antiquiores erant TIMOCHARIS pag. 171. hordn. Proleg.
& Aristillus, utpote Annis circiter 300. ante Lineæ 12. Quædam H
Christum florescentes; quibus Temporibus ne ad Stellæ, & App
manifestò liquet ab Exemplis a *Ptolemao* al- pullus Timocharis hordn
latis, *Figuras* five *Mappas Constellationum* Aristillus notant, &
Veteribus Philosophis adfuisse, unà cum *Stel-* nam circiter ante Æ
larum *Locis* ibidem designatis. ram Christianam 295
Annoque Mendi 3709
& postea Anno 383
Nundique Anno 3721

Aratus Poeta de *Astrorum Ortu & Occasu* scripti circiter
Olympiadem 125

ante Æram Christianam 276

si non contemporaneus, paulò saltem recentior erat *Timocha-*
ride ac *Aristillo*, & certè *Chaldais* *Appulsuum* *Observatori-*
bus antiquior: cujus *Poema* testatur tunc *Temporis* *Constel-*
lationum Figuras *Græcis* etiam fuisse; sed a Quibus *Eas*
derivarunt, aut quomodo eas consequuti sunt, mihi adhuc
incompertum est.

Ex loco *Ptolemai* supra citato patet, quod per *Eos* scripto
Antiquiores intellexerit *HIPPARCHUM* ejusque sequentes, & per
eos *Chaldais* & *Græcis* *Astronomis antiquiores* intellexerit illos
Veteres qui *Planetarum* ad *Fixas Appulsus* prius observave-
rant; quorum *Appulsuum* ille maxime *borealis*, in observa-
tionum *Transcripto* memoratur in *Fronte* & Anno *Naba-*
nassari 476

five ante Æram Christianam 271

in quo *Transcripto* memorantur etiam *Stellæ* in *VIRGINIS Hu-*
mero maxime *Australi*, Anno *Nabonas*: 519

five Æra Christiane 228

Timocharis autem & *Aristillus*, quorum *Observationes* a *Pto-*
lemao nobis quoque traducuntur, plurimum *Asterismorum* *Stellas*
memorant; & exinde liquet, Illos formasse *Asterismorum* *Ima-*
gines five *Figuras* suâ *Ætate*, annos circiter *Trecentos* ante
Æram

Aeram Christianam: *Ptolemaus* enim non altiùs nobis Lucem præbet.

A *Ptolemai* Diebus ad nostra usque Tempora, Asterismorum Nomina quibus utitur *Ptolemaus*, a solertibus & eruditis omnium Gentium Viris semper sunt usurpata: etiam *Arabes* semper usi sunt ejus *Formis* & Constellationum *Nominibus*. Latini *Fixarum* Catalogi antiqui eadem adhibent Nomina: in *COPERNICI Catalogo* (primo quidem quem habemus Latino sermone ornatè scriptum) & in Illo *TYCHONIS* eadem usurpantur; sicut etiam in Catalogis, *Lingua*, duntaxat, Germanicà, Italicà, Hispanicà, Lusitanicà, Gallicà, & Anglicà conscriptis: atque in omnibus tam Veterum quàm Recentiorum Observationibus, *Ptolemaica* Asterismorum *Figura* & *Ptolemaica* astrorum Nomina usurpata sunt: ideoque nececessum est ut & nos iis acquiescamus & adherescamus, ne Vocabula usitata mutando, *Formasque* Constellationum vulgò receptas, *Veterum* Observationes reddamus inexplicitas.

TYCHO Brahe Anno 1601 Fatis concessit; & post ejus obitum duos Annos, *BAYERUS* suam edidit *Uranometriam*, in qua omnium *Asterismorum* Mappas tradit: ejus *Figura* sunt mediocres, *Stellaque* sat benè insculpuntur, secundum *Loca* in *Tychonis* Catalogo; plurimæque aliæ *Stella parva* adjiciuntur in *Tychonis* Catalogo non repertæ, sed ex nudo suo tantùm Conspectu, ut videtur, insertæ; Eas nempe conferendo cum *Fixis* quæ suis *Mappis* inferuntur ex *Tychonis* Catalogo, cujus eadem est Nomenclatura. Sed quum omnes ejus *Formas humanas* (præter *Booten*, *Andromedam* & *Virginem*) depinxerit cum partibus posterioribus ad Nos conversis, *Astra* illa, quæ omnes ante Ipsum *Astronomi* collocarunt in *Dextris* *Humeris*, *Costis*, *Manibus*, *Cruribus* sive *Pedibus*, cadunt in ejus *Figuris* ad partes *Sinistras* sive contrarias: harum ergo *Formarum* ope, quicumque *Veterum* Observationibus examinandis incumbit, aut *Fixarum* Catalogis quavis *Lingua* impressis vel editis, ad Angustias semet adductum sentiet, si hac de Re antea non fuerit præmonitus.

Erroris à *Bayero* admissi Causa erat, ut verisimile est, quodd quum sæpius ei occurrerent hæ voces ἐν ὡτῶν ἢ μεταφρεῖν in *Ptolemai* Catalogis; atque Lexica *Græca* ad earum Significationem investigandam pervolvens, semper invenerit νωτός latinè reddi *Dorsum* & μεταφρεῖν reddi *Tergum* sive *Interseapilium*,

pilium, concludebat *Interſcapiliu* ſignificare *ſpatium* in *Dorſo* inter *Scapulas* comprehenſum, vel *Interſtitium* a *Tergo* inter *Lumbos* & *Scapulas*: ubicunq; igitur harum Vocum Alterutra ei occurrebat in cujuſvis *Aſterifmi* Deſcriptione, exceptis *Virgine* ac *Andromedâ*, illam cum *Tergo* nobis obverſo depinxit. Unde omnes iſtas Stellas collocat in Partibus *Siniſtris* quas *Ptolemaus*, cæterique Antiqui, omneſque deinceps, ad ſuam uſque Ætatem, Aſtronomi poſuerunt in ſuarum Formarum *Dextris* Humeris, Manibus, Coſtis, Cruribus vel Pedibus, &c. indèque Obſervationes vetuſtiſſimas falſas reddit ac abſurdas.

Ut huic mederetur Errori, dum *Fixam* quamlibet eminentem memorat in *Dextro* Humero vel *Dextrâ* Tibiâ verſantem, addit, *aliâs in Sinistro*, &c. Quod equidem Hallucinationem excuſare videtur; ſed quum rarò hoc fiat, eos intricabit qui ejus *Mappis* utuntur, Illaſque inutilis efficiet.

Si autem *Bayernus* Mappam *Sagittarii* tantum delinearet vel aliam quamcunq; Formarum *humanarum*; ita ut Stellæ, in *Ptolemai* Catalogo locatæ, in Conſtellationum *Dextris* Humeris, Manibus, Lateribus, Pedibus, &c. ad *eaſdem* Partes in ſuis *Figuris* conſiſterent; tunc perſpexiſſet eas omnes ac ſingulas debere Faciem Nobis obvertere; & exinde comperiſſet, quòd in *Græco* *PTOLEMÆI* ſermone, Vocabulum *πρὸς* Cratem Corporis ſignificat, ſive *Coſtas*, & *μὲτα* *πρὸς* Spatium inter *Humeros* vel inter *Lumbos* & *Scapulas* non ſolùm a *Tergo*, vel in *Dorſo*, ſed etiam in Parte Corporis *anteriori*, ſive Spatium inter *Abdomen* & *Pectoris* partem ſuperiorem; atque ſic nulla fuiſſet inter ejus *Figuras* & *Veterum* Deſcriptiones Diſcrepantia: Mihi enim perſuaſum eſt, non ſolùm *Ptolemaum*, ſed ipſum etiam *Homerum*, hiſce Vocibus uti in latiori ſenſu quàm in *Lexicis* vulgò admittitur.

Nihilominùs, in plurimis Fixarum Mappis poſt *Bayereanas* exſculptis, Figure a *Bayero* deſumuntur iſdemque Erratis ſunt obnoxie.

Eruditus Vir *Gulielmus* SCICKARDUS, *Linguarum* Orientalium & *Matheſeos* Profeſſor, *Tubingæ* in *Germania*, *ASTROSCOPICUM* ſuum *Nordlingæ* Anno 1655 edidit, in quo iſtam *Bayeri* Hallucinationem obſervat, & Confuſionem quam pag. 44 parit in Stellarum Denominationibus; nobiſque refert alios antehac quæſtos eſſe, ſe iſtas Stellas ſæpiſſimè locaſſe in Figu-

rarum *Dextris* Costis; Humeris, Manibus, quæ in omnibus *Ptolemai* Descriptionibus ad partes contrarias collocantur; adeo ut *foli* minimè sumus, aut *primi*, qui in ista *Bayeri* Errata advertimus; alii enim & magni Nominis *Viri* dudum ante Nos idem fecere: ideoque magis miror, quosdam Viros recentiores *Bayeri* Figuras & Errata in suis *Hemisphæris* transcribere; tametsi *triginta* ab hinc Annis, & ultra, hujus Rei fuerint certiores facti.

Dominus *Scickardus* in Tractatùs sui parvi Exordio advertit, *Globos* Constellationibus cœlestibus exprimendis non aptos esse per *Figuras* eis agglutinas; & quicunque velit *Stellas* discere ex Imaginum in *Globo* depictarum Comparatione cum earum *Apectibus* in *Cœlis*, seiplos citò sentient multum intricatos: quoniam hæc Imitamina fieri supponuntur in Facie *Globi* exteriori, vel ad *Oculum* positum extra *Globum*; quum tamen Astra speculemur Nos, in *Constellationes* disposita, à *Terrâ* nostrâ, quasi *SPHÆRÆ concava*, cui affiguntur, *Centro*: ideoque oportet ut Eorum *Phænomena*, nostri respectu, sint quasi Eorum partes averſæ ad *Globi Convexum*; atque sic hi *Globi* Cœlis representandis inidonei sunt.

Infuper advertit *SCICKARDUS* *Planisphas* vel projectiones *Stereographicas* huic Rei incommodas esse; quia *Gradus* propè Medium vel *Centrum* multò *Minores* efficiunt quàm propè *Limbum*, seu Partes Projectionis *exterioris*, & exinde *Figuras* omnes distorquent.

Hiscè Incommodis medendis, Nihil censebam aptius *Mappis* accuratis, sed aliter projectis quàm sunt *Vulgares* Mappæ; sic, nimirum, ut omnes Declinationis *Parallela* sint Lineæ *Rectæ* æquidistantes; & ut *Longitudinis* Gradus, in singulis *Parallelis*, sint ubique proportionales *Sinibus* suarum Distantiarum a proximo *Polo*, & sibi invicem æquales in iisdem *Parallelis*.

Mappa autem sic descriptæ, usitatis quibuslibet Orthographicis & Stereographicis *Sphæræ* Projectionibus non quidem congruent, quæ *fixam Oculi* Positionem supponunt, in hiscè modò descriptis non etiam suppositam, sive postulatam: at nihilominus hæc Mappæ a *Globo* derivatæ sunt, haud secus ac Projectiones *Vulgares*, ac multò aptius sive rectius quàm sunt *MERCATORIS* Projectiones tam crebro in usu in *Mappis* totius *TERRÆ* vel *Regionum* particularium formandis; imò & peculiaries habent

habent Utilitates suprà hæc Mercatoris & Sphæra Projections modo memoratas. Hunc, nempe, in Modum,

Concipiatur Globus, sive Sphæra, circumdari infinito Numero Filorum æque tenuium & Æquatori exactè Parallelorum.

Circuli omnes in Globo usati, ut Æquator, Eclipticæ, Meridiani, &c. ducti supponantur ac divisi.

Constellationes etiam super Illis formentur & Stellarum Loca notentur, More solito.

Concipiatur quoque Meridianus per Medium cujuslibet Constellationis transiens, super Globo ductus, ac tenui Filo coopertus, cum tot ex Adjacentibus quot fuerit visum.

Concipiantur Fila, super quibus depingitur Asterismus, a superficie Globi exicari; & Quod per Medium transit, potredè extendatur in parte Media Chartæ alicujus, sive in Superficie perfectæ Pland.

Reliqua ponantur ad Rectos cum Meridiano Medio Angulos, at inversa; ita ut illæ partes, quæ in Globo collocantur ad dextrum Meridiani Latus, ad sinistram dicti Plani Latus conspiciantur sitæ, & vice versâ.

Atque sic Constellationis Imaginem & Figuram in Plano sive Chartâ habebis projectam, ubi Declinationis lineæ parallela erunt Rectæ, earumque Distantiæ erunt eadem quæ sunt in Globo; sicut etiam erant Distantiæ ac Differentiæ inter Ascensiones rectas duarum quarumlibet Stellarum æqualiter a Polo remotarum, vel quæ eandem ab Æquatore Declinationem possident.

At Meridiani evadent Curvæ compositæ, ejusdem nempe Naturæ, iisdemque prædictæ Proprietatibus cum istâ quam clarissimus nostras Doctor WALLISIUS Curvâ Sinuam appellat.

Circuli Longitudinis & Paralleli Latitudinis eidem Chartæ inscribi queant, ope Tabularum ejusmodi, quæ Declinationes ostendunt & Rectas Ascensiones singulis Longitudinis Gradibus competentes, unâ cum singulis Latitudinis Gradibus: nam exinde Puncta inveniuntur in Chartâ sive Mappâ, per quæ tranfiet unusquisque Circulus Longitudinis vel Parallelus Latitudinis; & per quæ si Lineæ Manu æquabili investigentur vel ducantur, quæfitos expriment Circulos parallelos.

Ejusmodi TABULÆ in Regimontani, multorumque tritorum Auctorum Operibus, reperientur, ad decem tantum Latitudinis Gradus;

Gradus; at mihi adfunt *Tabula* multò accuratiores & consummatae, quæ Labori ac Industriæ Domini *Abrahami Sharp* debentur.

Quum huc usque processissem Ego, istarum Constellationum *Mappas* formare institui, in quibus maximam *Fixarum* partem determinatam habui. Unumquemque *Declinationis* Gradum æqualem feci *Tribus* Digiti *Decimis*, sive *Tres* *Digitos* æquales 10 Gradibus: curavi ut supradictus Dominus *HODGSON* *Chartas* præpararet, Stellarumque *Loca* punctis notaret, & ut *Imagines* iisdem depingerentur secundum *Descriptiones* in *Ptolemæi* Catalogo repertas, quæ apud omnes post eum *Astronomos* sine quavis Alteratione in usu fuere, donec *Bayerus*, eas reformando, vel aliter formando, penitus vitiavit: præcipuum namque Consilium & Intentio mihi fuit, antiquas restituere *Asterismorum* FIGURAS, a *Ptolemæo* ejusque Majoribus usitatas, ut exinde præcaverem, ne ab Innovatoribus arrogantibus corrumperebantur.

Quum verò *Lineamenta* non sat artificiosè ducerentur sicut Ego proposui; Anno 1703 *Molitorum* sive *Zurejfer* conduxì peritum, cui *Chartæ* dabantur benè præparatæ, in quibus 12 circiter *Constellationes*, summo quidem Artificio, depinxit.

Jam verò comperiens quòd in meo Catalogo *Stellæ* forent duplò plures conscriptæ quàm in *Bayeri* *Mappis* aut *Hevelii* continentur Catalogo; *Mappas* meas ampliandas esse, necessarium duxi, atque loco sive spatio *Trium* Digiti partium *Decimarum* uni Gradui attribui *quatuor* Digiti partes *Decimas*, Stellarumque *Imagines* efficere decrevi *minores* quam a *Bayero* confictæ sunt, ut inde plus *spatii* lucrarer.

Interim tamen tum *Observationes* pro absolvendo Catalogo, tum *Computationes* pro Stellarum *Locis* ex hisce deducendis, omni quâ potui Diligentia promovebam; nam *Seneclutem* mihi ingruentem sentiebam, & Frigori nocturno tolerando minùs eram Idoneus.

HISTORIA mearum de Fixis *Observationum* sic traditâ; & verâ ECLIPTICÆ *Obliquitate*, sive TERRÆ *Axeos* Inclinatione (prout ejus Motûs Assertores illam potiùs appellare velint) hætenùs demonstratâ; quum etiam ostenderim satis, in quem modum Motûs Terræ *Inæqualitatem* determinabam, veraque *Loca* quarundam ex *Fixis* eminentioribus, & ab iis *Loca* reliquarum quæ in meo inferuntur Catalogo: Tandem Rationem reddam

De Ordine ac Usibus
mei CATALOGI.

Catalogus *Loca* exhibet *Fixarum* fermè 3000 in Vulgaribus Constellationibus contenta; Itidem *Loca* *Fixarum* in Novis Constellationibus *Sextantis Heveliani*, nempe LEONE minore, CAMELOPARDALI, CANIBUS *venaticis*, LYNCE, LACERTA & VULPECULA; in quibus omnes, quas habet *Hevelius*, Stellas non inferendas putavi; quia *Observationum* satis tunc non fueram nactus pro Earum *Locis* definiendis, quando *Historia mea Cœlestis Britannica* VOLUMEN PRIMUM Typis mandaveram.

Constellationes *Eclipticales* primo loco ponuntur, eodemque ordine quo *Meridianum* transeunt: hisce proximæ sunt quædam Constellationum *Australium* in Meridiano nostro visibilibus; quoniam post *Eclipticales* confestim observabantur: ac denique *Boreales* locantur; quia novissimè sunt observatæ.

Prima parva *Columna* monstrat *Locum* quem aliqua *Stella* in *Ptolemæi* Catalogo possidet.

Secunda Columna ostendit *Locum* quem aliqua *Stella* in *Tychonis* Catalogo obtinet.

Tertia verò Stellarum indicat *Nomina* secundum *Ptolemaum*; quæ quidem *Nomina* mordicè tenenda & conservanda duxi; quandoquidem non solum *Arabes* & *Persæ* in suis Stellarum *Catalogis* & suarum *Observationum Historiis*, sed & *Germani*, *Itali*, *Galli*, *Hispani*, *Lusitani* atque nostrates *Britanni*, iisdem usi sunt *Nominibus*; atque si aliter fecissent, *Vetèrum* *Observationes* Intellectu admodum *Difficiles* reddidissent: *Veteribus* igitur adhæresco, ac *Innovatores* ignaros, arrogantes, ab omnibus integerrimis & peritissimis *Astronomia* *Professoribus* posteris castigandos relinquo & puniendos.

Quarta Columna continet *Characteres* quibus *Bayerus* in *Mappis* suis *Stellas* notavit ac distinxit: *primas* *Alphabeta*

Græci Literas apponit *majoribus* Stellis in unaquaque Constellatione, sequentes verò *Minoribus*: atque hoc monendum duxi, quoniam quidam accurati Observatores ejus Characteribus usi sunt, licet nec ejus Stellarum Appellationes recenscant, nec *Nomina antiqua*.

Quinta Columna Rectas indicat *Fixarum* Adscensiones usque ad Annum 1689 exeuntem, five ad Annum 1690 inenuntem, in *Gradibus*, *Minutis* & *Secundis* definitas.

Sexta Fixarum tradit *Distantias* a *Polo* visibili five *Arctico*, similiter in *Gradibus*, *Minutis* & *Secundis* determinatas.

Septima veras prodit *Earum* Longitudines.

Octava Earum veras dat *Latitudines* in iisdem Mensuris: tibi Literæ B. & A. monstrant utrum *Boreali* an verò *Australi* gaudeant Latitudine?

Nona docet quantum *Stella* mutat *Rectam* suam Adscensionem, dum ejusdem *Longitudo* crescit uno Gradu.

Decima ostendit quantum variat suam *Declinationem* eodem Tempore.

Undecima demum *Columna* indicat, cujus Magnitudinis Stellam esse arbitratus sum quando eam observatam habui.

Harum *Variationum* ope, *Recta* Adscensio vera & a *Polo* *Distantia* Cujusvis Stellæ in *Catalogo*, pro Tempore quovis *præterito* vel *futuro*, Centum Annos non excedente, facillimè indagari queunt.

Veterum Observationes Nostreis comparando, comperio Annum *Recessum* Punctorum *Æquinoctialium* *Terra* esse 50" unde Eorum *Longitudines* uno Gradu promoventur spatio Annorum 72; atque si Annum 1690 ab Anno proposito subducatur, Annorum habebis *Intervallum*; ita ut dicere licet

Ut 72

Ad Annorum *Intervallum*

Ita *Minuta* & *Secunda* alterutrius Variationis

Ad Partes *proportionales* ad *Intervallum* pertinentes.

Rectæ Adscensiones omnium harum Stellarum quæ *Ecliptica* ejusque *Polo* interjacent (five quæ longius quam $23^{\circ} \frac{1}{2}$ ab *Ecliptica* *Polo* distant) in *Recta* Adscensione crescunt, prout augentur Earum *Longitudines*: ideoque in omnibus ejusmodi Stellis addantur Partes *proportionales* quæ spectant ad *Intervallum* *Rectæ* Adscensionis Stellæ in *Catalogo* repertæ post Annum 1690.

Sic

Sic, si requiratur inveniendæ *Rectæ* Adscensio Stellæ *lucidæ* in *ARIETE* ad Initium Mensis *Maii*, Anni hujus labentis 1717, Temporis *Intervallum* a *Januario* Anni 1690 continet Annos 27. Mensesque 4.

Rectarum Adscensionum *Variatio* pro Annis 72. secundum *Tabulas* meas, est ————— $0^{\circ} 59' 22''$

quarum partes *Proportionales* ad Annos 27 $\frac{1}{2}$ reperiuntur esse ————— $0 \ 22 \ 32$
Cui si addatur *Rectæ* Adscensio Anni 1690, viz. $27 \ 26 \ 30$.

Rectæ Temporis *Dati* Adscensio emergit ————— $27 \ 49 \ 2$
Sed notandum, quædam esse Stellas intra *Circuli polaris* ambitum jacentes, quarum *Rectæ* Adscensiones minuentur, dum earum *Longitudines* crescunt; cujusmodi sunt plurimæ in Constellatione *DRACONIS*, quarum *Variationes*, respectu *Rectæ* Adscensionis, notantur signo—. In hisce Partes *proportionales*, Annorum *Intervallo* quadrantes ab Annis post 1690 futuris erunt *subtrahendæ*, uti Annis præteritis *addendæ*, *Rectæ* scilicet *Adscensionis* Stellæ pro Anno 1690.

Variationes autem quod attinet cum Respectu ad Stellarum Distantias a Mundi *Polo* visibili *Boreali*; notandum est, Stellas istas quarum *Longitudines* sunt in $\pi \approx \text{H} \ \gamma \ \delta \ \text{II}$ Mundi *Polo* assidue appropinquare; prout Earum *Longitudines* crescunt: ac propterea earum Partes *proportionales* Annorum *Intervallis* ab Anno 1690, sive istum Annum subsequenibus, sunt *subducendæ*; atque Partes *proportionales* Annorum *Intervallis* istum Annum antecedentibus *addendæ* sunt: E contra illæ Stellæ quarum *Longitudines* incidunt in $\epsilon \ \alpha \ \varpi \ \approx \ \pi$ vel ι continuè a *Polo* visibili recedunt, partesque suas *proportionales* Temporum futurorum post Annum 1690 *Intervallis* sunt *Addendæ*.

Quum ea *Variatio* Distantiæ *polaris* ab *ARIETIS* *lucidæ* Stellæ, spatio Annorum 72, sit ————— $0^{\circ} 21' 20''$
Partes *Intervallo* proportionales erunt ————— $0 \ 8 \ 6$

Quoniam autem Stella est in *Ariete*, & Annus *datus* sit post 1690, istaque *Variatio* *subtrahenda* sit a Stellæ Distantiâ a Mundi *Polo*, ad Annum 1690 determinatâ in *Catalogo*, nempe ————— $68 \ 1 \ 45$
Distantia hodie primo *Maii* 1717. relinquitur $67 \ 53 \ 39$
Hæ

Atque hæ *Variationes* erant derivatæ ab amplis *Tabulis* Rectæ *Adscensionis* ac polaris *Distantiæ*, quoad singulos tum *Longitudinis* tum *Latitudinis* Gradus; quas quidem *Tabulas* ab ABRAHAMO SHARPIO supra memorato ex mero suo Motu computatas, hætenus imprimendas curavi & *Catalogo* adnectendas, quasi in *Appendice*. Computabantur autem *Variationes* quarundam Stellarum quæ, ob nimium Eorum ad *Polum* Appulsum, ex *Tabulis* deduci nequibant, Certitudine nimirum satis competenti; quum præsertim *Differentiæ* nimis extiterint enormes; *Lectori* adhæc consulere velim ut pro Animo suo explendo, Stellarum intra *Circulum polarem Variationes* ejuscemodi de Integro computet, quibus pro re nata uti velit, & quas comperiet efficere *Variationum Differentias* magis inæquales quàm fortassis unquam arbitratus est.

Ad Laborem ei demendum in *Stellâ polari* observandâ, *Rectam* illius *Adscensionem* a *Polo* pro 120 Annis *futuris* hic quoque exhibeo, ut sit *Lectori* pro exemplo & Incitamento: tantum addam, quòd harum *Variationum* ope, *Catalogus* meus inservire queat cuivis Tempori per *ducentos, trecentos* aut plures *Annos præteritos* vel *futuros*; sicut ejuscemodi *Rerum* periti facillimè capient.

Si verò aliquis opinetur me admittere *Punctorum Terræ* *Æquinoctialium* *Recessum* vel *perexiguum* vel minus *amplum*, *TABULÆ variationum* huic semper sufficere possint, eidemque usui inservire: Nam vice Annorum 72 in quibus *Fixas* propono promovendas *uno* *Longitudinis* *Gradu*, *Terminum* mutet *Proportionis primum*, atque dicat

Ut *Numerus* Annorum quibus *Stellæ* uno *Gradu* *promoveantur*

Ad *variationem*, &c.

Et *Operatio* procedet sicut in *Directionibus* præcedentibus.

Anni	* <i>Meris</i> <i>Longitudo</i>			<i>Altitudo</i> <i>hæstæ</i>		<i>Æq. Sol.</i>		<i>Distantia</i> a <i>Polo</i>		<i>Æq. a <i>Polo</i></i>	
	°	'	"	°	'	°	'	°	'	°	'
1712	11	34	44	40	9	23	7	3	9	30	
1727	14	14	40	9	19	30		3	1	30	3 17
1740	17	4	40	10	10	11		3	1	40	3 12
1752	21	14	40	10	58	40		3	17	47	3 17
1773	27	34	40	11	31	0		1	33	17	3 11
1788	35	24	40	12	1	14		1	49	39	3 16
1797	39	44	40	12	41	37		3	23		3 14
1809	39	14	40	13	20	14		1	40	13	3 13
1821	36	4	40	14	3	23		1	50	50	3 11
1833	36	14	40	14	46	14		2	34	28	3 11
1847	36	14	40	15	34	30		3	30	30	3 10

A D

LECTOREM.

NON abs re Ducimus certiorē facere Lectorem, Obiisse hujus Operis Auctorem Decembrū 31^{mo} Anno Domini M.DCC.XIX, Dolorē Stranguria per striduum jam opprimente, postquam maximam hujus Operis partem Typis ipse mandaverat, Parti residua extremam admovisset Manum, (exceptis Prolegomenis quae Lingua Scripta Vernacula reliquit quaeque si diutius vixisset recensere statuit,) Totumque Opus eodem quo nunc Ordine edendum in mandatis dederat, Prolegomenis nimirum tertii Voluminis initio praefixis. Quod quoniam ab usitata Methodo alienius fortasse videatur, attamen si Animo expendamus in hunc apprime Usum extructum esse OBSERVATORIUM, ut Fixarum Catalogus accuratus obtineretur, & quum haec Prolegomena particularem reddunt Descriptionem quibus Instrumentis, qua Methodo praedictus obtinebatur Catalogus, & quum adeo sibi invicem sint affinia, peridoneum apparebit, atque Ordini perquam consensancum.

Eximius hic vir Vitam clausit Anno Aetatis suae 74^{to}, Natus Augusti 19^{to}, Anno Domini M.DC.XLVI, in Oppido Derby in Anglia. Omnium Seculi sui Astronomorum facile Princeps erat, & Coryphaeus, nulloque Seculorum praeteritorum secundus. Ad Inceptum tam grande, tamque generosum, a Natura creatus videbatur, qui a tenero jam Ungui Studiis Astronomicis apprime Incubuit, non tam Rom suam augendi gratia, quam verum indagandi, solidumque Jacendi Fundamentum, pro Legibus definiendū, quibus reguntur Corpora Caelestia, unde inestimabilem Posteritati reliquit Thesaurum, quo clarissima ejus Memoria, in omne Aevum erit prorogata, Ejusque Nomen apud Posterum ad Aethra digne feretur, quamdiu nimirum Homines Caelos contemplabuntur, Navesque Aequora pererrabunt.

Quid de Flamsteedio, ejusque Operibus censebat Gens Literaria, patet ex Epistola, ab Ipso, virisque omnium Gentium celeberrimis, ultro citroque data, quae forsitan aliquando in Lucem prodeant. Quid autem inter Nostrates optimi Censurini Judices ex sequenti Excerpto elucescit, cujus Rei Ratio haec erat, viz.

Cum Dominus FLAMSTEEDIUS, Annū circiter M.DCC.IV, Manuscriptorum omnium, quae tunc habuit Praelo parata, Rationem, per Amicum quendam, Regia communicaverit Societati, ita oblectati sunt Societatis illius Socii, ut unanimo Consensu, Serenissimo Danica Principi Georgio, tunc temporis Thalesiarcha, atque egregio Scientiarum Patrono commenderent, tamquam Opus Ejus Fave, & Patrocinio non indignum. Quibus ille annuere non dedignatur, Epistolam Georgii Clark Armigeri (tunc Ipsius in Foro Thalesiarchali Secretarii) manu exaratam ad Eos dandam jussit; qua, iis quorum Nomina subscribuntur, Viris, id delegavit Negotiū, ut Chartas nimirum inspicere Flamsteedianas, atque ipsi reddere Rationem, quid in iis dignum esset quod Typis mandaretur, & quinam in eo sumptus facienda. Cujus Mandatis Illi morem gerentes, suum hūc de rebus illico miserunt Rescriptum, Cujus Sententia sic se habet, viz.

Hanc

Ad LECTOREM.

Hanc Observationum Seriem, omnium quæ hætenus a Quoquam sunt peractæ, copiosissimam ducimus, & perfectissimam; Et quum tam ad Astronomiæ, quam Nauticæ Artis Perfectionem, quam plurimum confert, ita si deperdita fuerit, ejusdem Jacturam, nullo modo reparandam credimus. Ut vero Opus adeo sumptuosum, e Tenebris unquam emergeret, qua Ratione fieri possit, omnino Nos latet, nisi, Tibi, Princeps Serenissime, placuerit Tuis Ipsius Impendis edere,

Sic Testantur

Celsitudinis Tuae

Clientes quam humillime devoti

FRANCISCUS ROBERTS,
CHRISTOPHORUS WREN,
ISAACUS NEWTON,
DAVID GREGORY,
JOANNES ARBUTHNOT.

Non ita multo post redditam hoc Rescriptum, ubi primum Chartæ parari poterant, & idoneæ imprimendi Operis iniri Rationes, feliciter inceptam est, atque Primi Voluminis Sebedæ Nonaginta septem Typis mandabantur, durante Serenissimi Principis Vita, Ejusque sumptibus. At post hujusce Principis Obiitum, hoc magnum Opus tantum ipsis sumptibus Flamsteedianis promovebatur, atque Ipso jam defuncto sumptibus Executorum.

N. B. Mappæ Cœlestes sub Finem τῆς Περιγραφῆς memoratæ, sunt Numero 25 (exceptis tam Borealium quam Australium Constellationum Planisphæis) quarum aliquæ jam sunt Sculptæ, reliquæ vero quam primum possint, finientur, atque edentur.

TABULÆ ASTRONOMICÆ

PROSTAPHERÆSIUM,

LATITUDINUM ab Ecliptica, &

LONGITUDINUM,

Ad Gradum quemlibet, Primi Quadrantis, Ascensionis
Rectæ & Declinationis ab Æquatore.

Fixarum Planetarumq; Locis, & Latitudinibus ab earum
datis Ascensionibus & Declinationibus investigandis,
& vicissim, inservientes.

Constructæ ab *ABRAHAMO SHARPIO.*

A

In ultimo Quadrante adde 180 Gradus.

[illegible]

R.	1				2				3				4				5				6				
	Pr	ph	h	h	Pr	ph	h	h	Pr	ph	h	h	Pr	ph	h	h	Pr	ph	h	h	Pr	ph	h	h	
1	0	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
2	1	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
3	2	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
4	3	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
5	4	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
6	5	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
7	6	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
8	7	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
9	8	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
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11	0	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
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16	5	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
17	6	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
18	7	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
19	8	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
20	9	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01	04	11	47	01	04	11	47	01	04
21	0	23	14	00	11	47	10	00	17	11	47	01	10	11	47	01									

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Gr.	19	20	21	22	23	24
Pre	19	20	21	22	23	24
1	46	46	46	46	46	46
2	46	46	46	46	46	46
3	46	46	46	46	46	46
4	46	46	46	46	46	46
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16	46	46	46	46	46	46
17	46	46	46	46	46	46
18	46	46	46	46	46	46
19	46	46	46	46	46	46
20	46	46	46	46	46	46
21	46	46	46	46	46	46
22	46	46	46	46	46	46
23	46	46	46	46	46	46
24	46	46	46	46	46	46
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26	46	46	46	46	46	46
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72	46	46	46	46	46	46
73	46	46	46	46	46	46
74	46	46	46	46		

Gr.	25	26	27	28	29	30
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26	26	26	26	26	26	26
27	27	27	27	27	27	27
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29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
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43	43	43	43	43	43	43
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47	47	47	47	47	47	47
48	48	48	48	48	48	48
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52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
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58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75

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PROSTAPHÆRESES ad quemlibet Gradum Ascensionis Rectæ & Declinationis:

44										45										46										47										48									
A. Prof. A. R. Def. A. D. Def.					A. Prof. A. R. Def. A. D. Def.					A. Prof. A. R. Def. A. D. Def.					A. Prof. A. R. Def. A. D. Def.					A. Prof. A. R. Def. A. D. Def.					A. Prof. A. R. Def. A. D. Def.					A. Prof. A. R. Def. A. D. Def.																			
A	P	R	D	D	A	P	R	D	D	A	P	R	D	D	A	P	R	D	D	A	P	R	D	D	A	P	R	D	D	A	P	R	D	D															
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Gr. 55			56			57			58			59			60		
Protoph.	R. Decl.	Def.	Protoph.	R. Decl.	Def.	Protoph.	R. Decl.	Def.	Protoph.	R. Decl.	Def.	Protoph.	R. Decl.	Def.	Protoph.	R. Decl.	Def.
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3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3
4	0	4	4	0	4	4	0	4	4	0	4	4	0	4	4	0	4
5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5
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[illegible]

[illegible]

Gr. 72

74

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76

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78

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80				81				82				83				84			
Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.			
Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.				Prof. ph. R. D. L. D. C.			
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26	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460		
27	461	462																	

18 PROSTAPHÆRESES ad quemlibet Gradum Ascensionis Rectæ & Declinationis.

[illegible]

[illegible]

34				35				36				37				38			
Lat., Long., D. Dif.				Lat., Long., D. Dif.				Lat., Long., D. Dif.				Lat., Long., D. Dif.				Lat., Long., D. Dif.			
Lat.	Long.	D.	Dif.	Lat.	Long.	D.	Dif.	Lat.	Long.	D.	Dif.	Lat.	Long.	D.	Dif.	Lat.	Long.	D.	Dif.
1	14	16	04	17	49	13	01	14	43	15	04	14	38	19	04	14	38	19	04
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27	14	16	04	17	49														

Gr.	37	38	39	40	41	42
A.	Latitud.	Latitud.	Latitud.	Latitud.	Latitud.	Latitud.
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5	0 5	0 5	0 5	0 5	0 5	0 5
6	0 6	0 6	0 6	0 6	0 6	0 6
7	0 7	0 7	0 7	0 7	0 7	0 7
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44	0 44	0 44	0 44	0 44	0 44	0 44
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[illegible]

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Lat.	Long.	R. Dec.	Lat.	Long.	R. Dec.	Lat.	Long.	R. Dec.	Lat.	Long.	R. Dec.	Lat.	Long.	R. Dec.	Lat.	Long.	R. Dec.
1	42 13	0 07	1	49 39	0 07	1	56 05	0 07	1	62 31	0 07	1	68 57	0 07	1	75 23	0 07
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3	42 53	0 27	3	50 19	0 27	3	56 45	0 27	3	63 11	0 27	3	69 37	0 27	3	76 03	0 27
4	43 13	0 37	4	50 39	0 37	4	57 05	0 37	4	63 31	0 37	4	69 57	0 37	4	76 23	0 37
5	43 33	0 47	5	50 59	0 47	5	57 25	0 47	5	63 51	0 47	5	70 17	0 47	5	76 43	0 47
6	43 53	0 57	6	51 19	0 57	6	57 45	0 57	6	64 11	0 57	6	70 37	0 57	6	77 03	0 57
7	44 13	1 00	7	51 39	1 00	7	58 05	1 00	7	64 31	1 00	7	70 57	1 00	7	77 23	1 00
8	44 33	1 10	8	51 59	1 10	8	58 25	1 10	8	64 51	1 10	8	71 17	1 10	8	77 43	1 10
9	44 53	1 20	9	52 19	1 20	9	58 45	1 20	9	65 11	1 20	9	71 37	1 20	9	78 03	1 20
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13	46 13	2 00	13	53 39	2 00	13	59 65	2 00	13	66 31	2 00	13	72 57	2 00	13	79 23	2 00
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25	50 13	4 00	25	57 39	4 00	25	62 25	4 00	25	70 31	4 00	25	76 57	4 00	25	83 23	4 00
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73	66 13	12 00	73	73 39	12 00	73	69 85	12 00	73	86 31	12 00	73	92 57	12 00	73	99 23	12 00
74	66 33	12 10	74	73 59	12 10	74	70 05	12 10	74	86 51	12 10	74	93 17	12 10	74	99 43	12 10

Gr. 61				62				63				64				65				66				
Lat.		Long.		Lat.		Long.		Lat.		Long.		Lat.		Long.		Lat.		Long.		Lat.		Long.		
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21	31	30	40	44	22	74	4	43	43	43	74	43	22	63	19	0	1	22	65	1	22	66	1	22
22	31	30	41	44	22	74	4	43	43	43	74	43	22	63	19	0	1	22	65	1	22	66	1	22
23	31	30	42	44																				

67			68			69			70			71			72					
A	Lat.	Long.	A	Lat.	Long.	A	Lat.	Long.	A	Lat.	Long.	A	Lat.	Long.	A	Lat.	Long.			
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140</																				

LATITUDINES ad quemlibet Gradum Ascensionis Rectæ & Declinationis.

31

Gr.	73	74	75	76	77	78	
A.	Lat.	R.	D.	Lat.	R.	D.	
1	17 42	1	34 40	1	34 40	1	34 40
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4	17 42	1	34 40	1	34 40	1	34 40
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7	17 42	1	34 40	1	34 40	1	34 40
8	17 42	1	34 40	1	34 40	1	34 40
9	17 42	1	34 40	1	34 40	1	34 40
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11	17 42	1	34 40	1	34 40	1	34 40
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77	17 42	1	34 40	1	34 40	1	34 40
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Gr. 79			80			81			82			83			84		
A.	Latitud.	R. Dif.	A.	Latitud.	R. Dif.	A.	Latitud.	R. Dif.	A.	Latitud.	R. Dif.	A.	Latitud.	R. Dif.	A.	Latitud.	R. Dif.
0	0 11	0	0	0 11	0	0	0 11	0	0	0 11	0	0	0 11	0	0	0 11	0
1	64 12 02	23 22	1	64 12 11	23 22	1	64 12 20	23 22	1	64 12 29	23 22	1	64 12 38	23 22	1	64 12 47	23 22
2	64 12 56	0 12	2	64 13 05	0 11	2	64 13 14	0 10	2	64 13 23	0 09	2	64 13 32	0 08	2	64 13 41	0 07
3	13 13	10	3	13 22	9 59	3	13 31	9 58	3	13 40	9 57	3	13 49	9 56	3	13 58	9 55
4	17 19	36	4	17 28	35	4	17 37	34	4	17 46	33	4	17 55	32	4	18 04	31
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7	33 01	2 33	7	33 10	2 32	7	33 19	2 31	7	33 28	2 30	7	33 37	2 29	7	33 46	2 28
8	33 05	2 33	8	33 14	2 32	8	33 23	2 31	8	33 32	2 30	8	33 41	2 29	8	33 50	2 28
9	33 10	2 33	9	33 19	2 32	9	33 28	2 31	9	33 37	2 30	9	33 46	2 29	9	33 55	2 28
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11	33 20	2 33	11	33 29	2 32	11	33 38	2 31	11	33 47	2 30	11	33 56	2 29	11	34 05	2 28
12	33 25	2 33	12	33 34	2 32	12	33 43	2 31	12	33 52	2 30	12	34 01	2 29	12	34 10	2 28
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Gr. 85				86				87				88				89				90			
Latitud.		R. D. T.		Latitud.		R. D. T.		Latitud.		R. D. T.		Latitud.		R. D. T.		Latitud.		R. D. T.		Latitud.		R. D. T.	
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3	3	0	3	3	3	0	3	3	3	0	3	3	3	0	3	3	3	3	0	3	3	3	3
4	4	0	4	4	4	0	4	4	4	0	4	4	4	0	4	4	4	4	0	4	4	4	4
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6	6	0	6	6	6	0	6	6	6	0	6	6	6	0	6	6	6	6	0	6	6	6	6
7	7	0	7	7	7	0	7	7	7	0	7	7	7	0	7	7	7	7	0	7	7	7	7
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17	17	0	17	17	17	0	17	17	17	0	17	17	17	0	17	17	17	17	0	17	17	17	17
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67	67	0	67	67	67	0	67	67	67	0	67	67	67	0	67	67	67	67	0	67	67	67	67
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69	69	0	69	69	69	0	69	69	69	0	69	69	69	0	69	69	69	69	0	69	69	69	69
70	70	0	70	70	70	0	70</																

[illegible]

On Drill	1	2	3	4	5	6	7	8	9	10	11	12
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3	1	2	3	4	5	6	7	8	9	10	11	12
4	1	2	3	4	5	6	7	8	9	10	11	12
5	1	2	3	4	5	6	7	8	9	10	11	12
6	1	2	3	4	5	6	7	8	9	10	11	12
7	1	2	3	4	5	6	7	8	9	10	11	12
8	1	2	3	4	5	6	7	8	9	10	11	12
9	1	2	3	4	5	6	7	8	9	10	11	12
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12	1	2	3	4	5	6	7	8	9	10	11	12
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38	1	2	3	4	5	6	7	8	9	10	11	12
39	1	2	3	4	5	6	7	8	9	10	11	12
40												

LONGITUDINES ad quolibet Gradum Ascensionis Rectæ cum Declinatione AUSTRIANA.

37

Gr. Decl. 6										7										8										9										30										11											
Longitud. Pol. h. m. s. L.										Longitud. Pol. h. m. s. L.										Longitud. Pol. h. m. s. L.										Longitud. Pol. h. m. s. L.										Longitud. Pol. h. m. s. L.										Longitud. Pol. h. m. s. L.											
1	37	23	25	54	57	59	59	59	59	1	37	23	25	54	57	59	59	59	59	59	1	37	23	25	54	57	59	59	59	59	1	37	23	25	54	57	59	59	59	59	1	37	23	25	54	57	59	59	59	59	1	37	23	25	54	57	59	59	59	59	59

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LONGITUDINES ad quemlibet Gradum Ascensionis Rectæ cum Declinatione
AUSTRIACA.

39

[illegible]

40 LONGITUDINES ad quemlibet Gradum Ascensionis Recte cum Declinatione
BOREA.

Gr. Decl. 18		19		20		21		22		23	
A.	Longitudo	Lat. N. Dist.	Longitudo	Lat. N. Dist.	Longitudo	Lat. N. Dist.	Longitudo	Lat. N. Dist.	Longitudo	Lat. N. Dist.	
1	7 33 33	16 07	7 49 48	16 23	8 15 05	16 42	8 41 40	9 17 17	9 43 01	10 18 24	
2	8 16 42	14 09	8 32 44	14 25	9 08 13	14 52	9 38 32	10 08 49	10 38 56	11 08 53	
3	9 0 42	12 11	9 15 44	12 27	9 50 53	13 00	10 20 52	10 50 59	11 20 56	11 50 53	
4	9 44 42	10 13	10 10 44	10 29	10 45 53	11 00	11 15 52	11 45 59	12 15 56	12 45 53	
5	10 28 42	8 15	10 54 44	8 31	11 20 53	11 35	11 55 52	12 30 59	13 00 56	13 30 53	
6	11 12 42	6 17	11 38 44	6 33	12 05 53	12 20	12 40 52	13 35 59	14 05 56	14 35 53	
7	11 56 42	4 19	12 22 44	4 35	12 40 53	12 55	13 15 52	14 40 59	15 10 56	15 40 53	
8	12 40 42	2 21	13 06 44	2 37	13 20 53	13 35	13 50 52	15 15 59	15 45 56	16 15 53	
9	13 24 42	0 23	13 50 44	0 39	14 00 53	14 15	14 30 52	16 00 59	16 30 56	17 00 53	
10	14 08 42	0 25	14 34 44	0 41	14 50 53	15 05	15 20 52	16 45 59	17 15 56	17 45 53	
11	14 52 42	0 27	15 18 44	0 43	15 40 53	15 55	16 10 52	17 30 59	18 00 56	18 30 53	
12	15 36 42	0 29	16 02 44	0 45	16 30 53	16 45	17 00 52	18 15 59	18 45 56	19 15 53	
13	16 20 42	0 31	16 46 44	0 47	17 20 53	17 35	17 50 52	19 00 59	19 30 56	20 00 53	
14	17 04 42	0 33	17 30 44	0 49	18 10 53	18 25	18 40 52	19 45 59	20 15 56	20 45 53	
15	17 48 42	0 35	18 14 44	0 51	19 00 53	19 15	19 30 52	20 30 59	21 00 56	21 30 53	
16	18 32 42	0 37	18 58 44	0 53	19 50 53	20 05	20 20 52	21 15 59	21 45 56	22 15 53	
17	19 16 42	0 39	19 42 44	0 55	20 40 53	20 55	21 10 52	22 00 59	22 30 56	23 00 53	
18	20 00 42	0 41	20 26 44	0 57	21 30 53	21 45	22 00 52	22 45 59	23 15 56	23 45 53	
19	20 44 42	0 43	21 10 44	0 59	22 20 53	22 35	22 50 52	23 30 59	24 00 56	24 30 53	
20	21 28 42	0 45	21 54 44	1 01	23 10 53	23 25	23 40 52	24 15 59	24 45 56	25 15 53	
21	22 12 42	0 47	22 38 44	1 03	24 00 53	24 15	24 30 52	25 00 59	25 30 56	26 00 53	
22	22 56 42	0 49	23 22 44	1 05	24 50 53	25 05	25 20 52	25 45 59	26 15 56	26 45 53	
23	23 40 42	0 51	24 06 44	1 07	25 40 53	25 55	26 10 52	26 30 59	27 00 56	27 30 53	
24	24 24 42	0 53	24 50 44	1 09	26 30 53	26 15	26 40 52	27 15 59	27 45 56	28 15 53	
25	25 08 42	0 55	25 34 44	1 11	27 20 53	27 05	27 30 52	28 00 59	28 30 56	29 00 53	
26	25 52 42	0 57	26 18 44	1 13	28 10 53	27 55	28 20 52	28 45 59	29 15 56	29 45 53	
27	26 36 42	0 59	27 02 44	1 15	29 00 53	28 45	29 10 52	29 30 59	30 00 56	30 30 53	
28	27 20 42	0 61	27 46 44	1 17	29 50 53	29 35	30 00 52	30 15 59	30 45 56	31 15 53	
29	28 04 42	0 63	28 30 44	1 19	30 40 53	30 25	30 50 52	31 00 59	31 30 56	32 00 53	
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31	29 32 42	0 67	29 58 44	1 23	32 20 53	32 05	32 30 52	32 30 59	33 00 56	33 30 53	
32	30 16 42	0 69	30 42 44	1 25	33 10 53	32 55	33 20 52	33 15 59	33 45 56	34 15 53	
33	31 00 42	0 71	31 26 44	1 27	34 00 53	33 45	34 10 52	34 00 59	34 30 56	35 00 53	
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37	33 56 42	0 79	34 22 44	1 35	37 20 53	37 05	37 30 52	37 00 59	37 30 56	38 00 53	
38	34 40 42	0 81	35 06 44	1 37	38 10 53	37 55	38 20 52	37 45 59	38 15 56	38 45 53	
39	35 24 42	0 83	35 50 44	1 39	39 00 53	38 45	39 10 52	38 30 59	39 00 56	39 30 53	
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41	36 52 42	0 87	37 18 44	1 43	40 40 53	40 25	40 50 52	40 00 59	40 30 56	41 00 53	
42	37 36 42	0 89	38 02 44	1 45	41 30 53	41 15	41 40 52	40 45 59	41 15 56	41 45 53	
43	38 20 42	0 91	38 46 44	1 47	42 20 53	42 05	42 30 52	41 30 59	42 00 56	42 30 53	
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48	42 00 42	1 01	42 26 44	1 57	46 30 53	46 15	46 40 52	45 15 59	45 45 56	46 15 53	
49	42 44 42	1 03	43 10 44	1 59	47 20 53	47 05	47 30 52	46 00 59	46 30 56	47 00 53	
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52	44 56 42	1 09	45 22 44	2 05	49 50 53	49 35	50 00 52	48 15 59	48 45 56	49 15 53	
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83	67 40 42	1 71	68 06 44	3 07	75 40 53	75 25	75 50 52	71 30 59	72 00 56	72 30 53	
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87	70 36 42	1 79	71 02 44	3 15	79 00 53	78 45	79 10 52	74 30 59	75 00 56	75 30 53	
88	71 20 42	1 81	71 46 44	3 17	79 50 53	79 35	80 00 52	75 15 59	75 45 56	76 15 53	
89	72 04 42	1 83	72 30 44	3 19	80 40 53	80 25	80 50 52	76 00 59	76 30 56	77 00 53	
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91	73 32 42	1 87	73 58 44	3 23	82 20 53	82 05	82 30 52	77 30 59	78 00 56	78 30 53	
92	74 16 42	1 89	74								

LONGITUDINES ad quolibet Gradum Ascensionis Rectæ cum Declinatione AUSTRIANA.

41

Gr. Decl. 18				19				20				21				22				23			
Longit.	Dist. R.	Dist. L.	Dist. T.	Longit.	Dist. R.	Dist. L.	Dist. T.	Longit.	Dist. R.	Dist. L.	Dist. T.	Longit.	Dist. R.	Dist. L.	Dist. T.	Longit.	Dist. R.	Dist. L.	Dist. T.	Longit.	Dist. R.	Dist. L.	Dist. T.
30 35 37 38	14 16	16 17	18 19	31 35 37 38	15 18	17 19	19 20	32 35 37 38	16 19	18 20	20 21	33 35 37 38	17 20	19 21	21 22	34 35 37 38	18 21	20 22	22 23	35 35 37 38	19 22	21 23	23 24
1 35 37 38	16 18	18 19	20 21	2 35 37 38	17 19	19 20	21 22	3 35 37 38	18 20	20 21	22 23	4 35 37 38	19 21	21 22	23 24	5 35 37 38	20 22	22 23	24 25	6 35 37 38	21 23	23 24	25 26
3 35 37 38	18 20	20 21	22 23	4 35 37 38	19 21	21 22	23 24	5 35 37 38	20 22	22 23	24 25	6 35 37 38	21 23	23 24	25 26	7 35 37 38	22 24	24 25	26 27	8 35 37 38	23 25	25 26	27 28
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23 35 37 38	38 39	35 36	42 43	24 35 37 38	39 40	36 37	43 44	25 35 37 38	40 41	36 37	44 45	26 35 37 38	41 42	37 38	45 46	27 35 37 38	42 43	37 38	46 47	28 35 37 38	43 44	38 39	47 48
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29 35 37 38	44 45	38 39	48 49	30 35 37 38	45 46	39 40	49 50	31 35 37 38	46 47	38 39	50 51	32 35 37 38	47 48	40 41	51 52	33 35 37 38	48 49	37 38	52 53	34 35 37 38	49 50	41 42	53 54
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B O R E A.

37						38						39						40						41					
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LONGITUDINES ad quemlibet Gradum Ascensionis Rectæ cum Declinatione
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Or. Decl. 43			43			44			45			46			47		
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41			42			43			44			45			46			47			48			49			50			51			52			53		
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54				55				56				57				58				59			
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LONGITUDINES ad quemlibet Gradum Ascensionis Rectæ cum Declinatione
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58	42 23 54	30	44	42	48 36	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
59	42 24 30	30	44	42	48 43	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
60	42 25 06	30	44	42	48 50	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
61	42 25 42	30	44	42	48 57	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
62	42 26 18	30	44	42	49 04	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
63	42 26 54	30	44	42	49 11	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
64	42 27 30	30	44	42	49 18	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
65	42 28 06	30	44	42	49 25	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
66	42 28 42	30	44	42	49 32	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
67	42 29 18	30	44	42	49 39	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
68	42 29 54	30	44	42	49 46	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
69	42 30 30	30	44	42	49 53	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
70	42 31 06	30	44	42	50 00	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
71	42 31 42	30	44	42	50 07	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
72	42 32 18	30	44	42	50 14	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
73	42 32 54	30	44	42	50 21	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
74	42 33 30	30	44	42	50 28	39	44	44	37 01	37	46	46	4 14	36	42	47	31	34	41
75	42 34 06	30																	

71				72				73				74				75			
Longitud.	Lat. N.	Dist. L.	Dist. R.	Longitud.	Lat. N.	Dist. L.	Dist. R.	Longitud.	Lat. N.	Dist. L.	Dist. R.	Longitud.	Lat. N.	Dist. L.	Dist. R.	Longitud.	Lat. N.	Dist. L.	Dist. R.
1	39 10 11	32 30	61 10	2	39 40 21	33 04	101 42	3	39 30 12	32 40	100 30	4	39 40 14	32 40	101 10	5	39 40 15	32 40	101 10
6	39 40 16	32 30	61 10	11	39 40 17	33 04	101 42	16	39 40 18	32 40	100 30	21	39 40 19	32 40	101 10	26	39 40 20	32 40	101 10
31	39 40 21	32 30	61 10	36	39 40 22	33 04	101 42	41	39 40 23	32 40	100 30	46	39 40 24	32 40	101 10	51	39 40 25	32 40	101 10
56	39 40 26	32 30	61 10	61	39 40 27	33 04	101 42	66	39 40 28	32 40	100 30	71	39 40 29	32 40	101 10	76	39 40 30	32 40	101 10
81	39 40 31	32 30	61 10	86	39 40 32	33 04	101 42	91	39 40 33	32 40	100 30	96	39 40 34	32 40	101 10	101	39 40 35	32 40	101 10
106	39 40 36	32 30	61 10	111	39 40 37	33 04	101 42	116	39 40 38	32 40	100 30	121	39 40 39	32 40	101 10	126	39 40 40	32 40	101 10
141	39 40 41	32 30	61 10	146	39 40 42	33 04	101 42	151	39 40 43	32 40	100 30	156	39 40 44	32 40	101 10	161	39 40 45	32 40	101 10
181	39 40 46	32 30	61 10	186	39 40 47	33 04	101 42	191	39 40 48	32 40	100 30	196	39 40 49	32 40	101 10	201	39 40 50	32 40	101 10
221	39 40 51	32 30	61 10	226	39 40 52	33 04	101 42	231	39 40 53	32 40	100 30	236	39 40 54	32 40	101 10	241	39 40 55	32 40	101 10
261	39 40 56	32 30	61 10	266	39 40 57	33 04	101 42	271	39 40 58	32 40	100 30	276	39 40 59	32 40	101 10	281	39 40 60	32 40	101 10
301	39 40 61	32 30	61 10	306	39 40 62	33 04	101 42	311	39 40 63	32 40	100 30	316	39 40 64	32 40	101 10	321	39 40 65	32 40	101 10
341	39 40 66	32 30	61 10	346	39 40 67	33 04	101 42	351	39 40 68	32 40	100 30	356	39 40 69	32 40	101 10	361	39 40 70	32 40	101 10
381	39 40 71	32 30	61 10	386	39 40 72	33 04	101 42	391	39 40 73	32 40	100 30	396	39 40 74	32 40	101 10	401	39 40 75	32 40	101 10
421	39 40 76	32 30	61 10	426	39 40 77	33 04	101 42	431	39 40 78	32 40	100 30	436	39 40 79	32 40	101 10	441	39 40 80	32 40	101 10
461	39 40 81	32 30	61 10	466	39 40 82	33 04	101 42	471	39 40 83	32 40	100 30	476	39 40 84	32 40	101 10	481	39 40 85	32 40	101 10
501	39 40 86	32 30	61 10	506	39 40 87	33 04	101 42	511	39 40 88	32 40	100 30	516	39 40 89	32 40	101 10	521	39 40 90	32 40	101 10
541	39 40 91	32 30	61 10	546	39 40 92	33 04	101 42	551	39 40 93	32 40	100 30	556	39 40 94	32 40	101 10	561	39 40 95	32 40	101 10
581	39 40 96	32 30	61 10	586	39 40 97	33 04	101 42	591	39 40 98	32 40	100 30	596	39 40 99	32 40	101 10	601	39 40 100	32 40	101 10
621	3																		

LONGITUDINES ad quemlibet Gradum Ascensionis Rectæ cum Declinatione .59
AUSTRIA.

Ca. Dec. 11, 71

73

72

73										74										75									
Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.	Longitud.	Def. R.	Def. L.						
10	40	40	10	40	40	10	40	40	10	40	40	10	40	40	10	40	40	10	40	40	10	40	40						
11	41	41	11	41	41	11	41	41	11	41	41	11	41	41	11	41	41	11	41	41	11	41	41						
12	42	42	12	42	42	12	42	42	12	42	42	12	42	42	12	42	42	12	42	42	12	42	42						
13	43	43	13	43	43	13	43	43	13	43	43	13	43	43	13	43	43	13	43	43	13	43	43						
14	44	44	14	44	44	14	44	44	14	44	44	14	44	44	14	44	44	14	44	44	14	44	44						
15	45	45	15	45	45	15	45	45	15	45	45	15	45	45	15	45	45	15	45	45	15	45	45						
16	46	46	16	46	46	16	46	46	16	46	46	16	46	46	16	46	46	16	46	46	16	46	46						
17	47	47	17	47	47	17	47	47	17	47	47	17	47	47	17	47	47	17	47	47	17	47	47						
18	48	48	18	48	48	18	48	48	18	48	48	18	48	48	18	48	48	18	48	48	18	48	48						
19	49	49	19	49	49	19	49	49	19	49	49	19	49	49	19	49	49	19	49	49	19	49	49						
20	50	50	20	50	50	20	50	50	20	50	50	20	50	50	20	50	50	20	50	50	20	50	50						
21	51	51	21	51	51	21	51	51	21	51	51	21	51	51	21	51	51	21	51	51	21	51	51						
22	52	52	22	52	52	22	52	52	22	52	52	22	52	52	22	52	52	22	52	52	22	52	52						
23	53	53	23	53	53	23	53	53	23	53	53	23	53	53	23	53	53	23	53	53	23	53	53						
24	54	54	24	54	54	24	54	54	24	54	54	24	54	54	24	54	54	24	54	54	24	54	54						
25	55	55	25	55	55	25	55	55	25	55	55	25	55	55	25	55	55	25	55	55	25	55	55						
26	56	56	26	56	56	26	56	56	26	56	56	26	56	56	26	56	56	26	56	56	26	56	56						
27	57	57	27	57	57	27	57	57	27	57	57	27	57	57	27	57	57	27	57	57	27	57	57						
28	58	58	28	58	58	28	58	58	28	58	58	28	58	58	28	58	58	28	58	58	28	58	58						
29	59	59	29	59	59	29	59	59	29	59	59	29	59	59	29	59	59	29	59	59	29	59	59						
30	60	60	30	60	60	30	60	60	30	60	60	30	60	60	30	60	60	30	60	60	30	60	60						
31	61	61	31	61	61	31	61	61	31	61	61	31	61	61	31	61	61	31	61	61	31	61	61						
32	62	62	32	62																									

76				77				78				79				80			
Longitud.	Lat.	Dist. R.	Dist. L.	Longitud.	Lat.	Dist. R.	Dist. L.	Longitud.	Lat.	Dist. R.	Dist. L.	Longitud.	Lat.	Dist. R.	Dist. L.	Longitud.	Lat.	Dist. R.	Dist. L.
1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1
3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2
4	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3
5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4
6	5	5	5	6	5	5	5	6	5	5	5	6	5	5	5	6	5	5	5
7	6	6	6	7	6	6	6	7	6	6	6	7	6	6	6	7	6	6	6
8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7
9	8	8	8	9	8	8	8	9	8	8	8	9	8	8	8	9	8	8	8
10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9
11	10	10	10	11	10	10	10	11	10	10	10	11	10	10	10	11	10	10	10
12	11	11	11	12	11	11	11	12	11	11	11	12	11	11	11	12	11	11	11
13	12	12	12	13	12	12	12	13	12	12	12	13	12	12	12	13	12	12	12
14	13	13	13	14	13	13	13	14	13	13	13	14	13	13	13	14	13	13	13
15	14	14	14	15	14	14	14	15	14	14	14	15	14	14	14	15	14	14	14
16	15	15	15	16	15	15	15	16	15	15	15	16	15	15	15	16	15	15	15
17	16	16	16	17	16	16	16	17	16	16	16	17	16	16	16	17	16	16	16
18	17	17	17	18	17	17	17	18	17	17	17	18	17	17	17	18	17	17	17
19	18	18	18	19	18	18	18	19	18	18	18	19	18	18	18	19	18	18	18
20	19	19	19	20	19	19	19	20	19	19	19	20	19	19	19	20	19	19	19
21	20	20	20	21	20	20	20	21	20	20	20	21	20	20	20	21	20	20	20
22	21	21	21	22	21	21	21	22	21	21	21	22	21	21	21	22	21	21	21
23	22	22	22	23	22	22	22	23	22	22	22	23	22	22	22	23	22	22	22
24	23	23	23	24	23	23	23	24	23	23	23	24	23	23	23	24	23	23	23
25	24	24	24	25	24	24	24	25	24	24	24	25	24	24	24	25	24	24	24
26	25	25	25	26	25	25	25	26	25	25	25	26	25	25	25	26	25	25	25
27	26	26	26	27	26	26	26	27	26	26	26	27	26	26	26	27	26	26	26
28	27	27	27	28	27	27	27	28	27	27	27	28	27	27	27	28	27</		

LONGITUDINES ad quemlibet Gradum Ascensiones Rectæ cum Declinatione AUSTRIANA.

77										78										79										80									
Gr. Decl. 76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95	
Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.	Longitud.	Decl. R. Del. L.
1	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14	10 14

42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	48																						

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82

84

84

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64 LONGITUDINES ad quolibet Gradum Ascensionis Rectæ cum Declinatione
B O R E A.

Gr. Decl. 86				87				88				89				90			
A.	Longitud.	Gr. R.	Decl. L.	A.	Longitud.	Gr. R.	Decl. L.	A.	Longitud.	Gr. R.	Decl. L.	A.	Longitud.	Gr. R.	Decl. L.	A.	Longitud.	Gr. R.	Decl. L.
1	4 31	14	147 37	1	31 37	10	146 03	1	59 19	33	147 33	1	29 39	10	147 33	1	29 39	10	147 33
2	6 25	14	147 37	2	33 31	10	146 03	2	59 33	34	147 33	2	29 49	11	147 33	2	29 49	11	147 33
3	8 20	14	147 37	3	35 25	10	146 03	3	59 47	35	147 33	3	29 59	12	147 33	3	29 59	12	147 33
4	10 15	14	147 37	4	37 19	10	146 03	4	59 59	36	147 33	4	30 09	13	147 33	4	30 09	13	147 33
5	12 10	14	147 37	5	39 13	10	146 03	5	60 11	37	147 33	5	30 19	14	147 33	5	30 19	14	147 33
6	14 05	14	147 37	6	41 07	10	146 03	6	60 23	38	147 33	6	30 29	15	147 33	6	30 29	15	147 33
7	16 00	14	147 37	7	43 01	10	146 03	7	60 35	39	147 33	7	30 39	16	147 33	7	30 39	16	147 33
8	17 55	14	147 37	8	44 55	10	146 03	8	60 47	40	147 33	8	30 49	17	147 33	8	30 49	17	147 33
9	19 50	14	147 37	9	46 49	10	146 03	9	60 59	41	147 33	9	30 59	18	147 33	9	30 59	18	147 33
10	21 45	14	147 37	10	48 43	10	146 03	10	61 11	42	147 33	10	31 09	19	147 33	10	31 09	19	147 33
11	23 40	14	147 37	11	50 37	10	146 03	11	61 23	43	147 33	11	31 19	20	147 33	11	31 19	20	147 33
12	25 35	14	147 37	12	52 31	10	146 03	12	61 35	44	147 33	12	31 29	21	147 33	12	31 29	21	147 33
13	27 30	14	147 37	13	54 25	10	146 03	13	61 47	45	147 33	13	31 39	22	147 33	13	31 39	22	147 33
14	29 25	14	147 37	14	56 19	10	146 03	14	61 59	46	147 33	14	31 49	23	147 33	14	31 49	23	147 33
15	31 20	14	147 37	15	58 13	10	146 03	15	62 11	47	147 33	15	31 59	24	147 33	15	31 59	24	147 33
16	33 15	14	147 37	16	60 07	10	146 03	16	62 23	48	147 33	16	32 09	25	147 33	16	32 09	25	147 33
17	35 10	14	147 37	17	62 01	10	146 03	17	62 35	49	147 33	17	32 19	26	147 33	17	32 19	26	147 33
18	37 05	14	147 37	18	63 55	10	146 03	18	62 47	50	147 33	18	32 29	27	147 33	18	32 29	27	147 33
19	39 00	14	147 37	19	65 49	10	146 03	19	62 59	51	147 33	19	32 39	28	147 33	19	32 39	28	147 33
20	40 55	14	147 37	20	67 43	10	146 03	20	63 11	52	147 33	20	32 49	29	147 33	20	32 49	29	147 33
21	42 50	14	147 37	21	69 37	10	146 03	21	63 23	53	147 33	21	32 59	30	147 33	21	32 59	30	147 33
22	44 45	14	147 37	22	71 31	10	146 03	22	63 35	54	147 33	22	33 09	31	147 33	22	33 09	31	147 33
23	46 40	14	147 37	23	73 25	10	146 03	23	63 47	55	147 33	23	33 19	32	147 33	23	33 19	32	147 33
24	48 35	14	147 37	24	75 19	10	146 03	24	63 59	56	147 33	24	33 29	33	147 33	24	33 29	33	147 33
25	50 30	14	147 37	25	77 13	10	146 03	25	64 11	57	147 33	25	33 39	34	147 33	25	33 39	34	147 33
26	52 25	14	147 37	26	79 07	10	146 03	26	64 23	58	147 33	26	33 49	35	147 33	26	33 49	35	147 33
27	54 20	14	147 37	27	81 01	10	146 03	27	64 35	59	147 33	27	33 59	36	147 33	27	33 59	36	147 33
28	56 15	14	147 37	28	82 55	10	146 03	28	64 47	60	147 33	28	34 09	37	147 33	28	34 09	37	147 33
29	58 10	14	147 37	29	84 49	10	146 03	29	64 59	61	147 33	29	34 19	38	147 33	29	34 19	38	147 33
30	60 05	14	147 37	30	86 43	10	146 03	30	65 11	62	147 33	30	34 29	39	147 33	30	34 29	39	147 33
31	62 00	14	147 37	31	88 37	10	146 03	31	65 23	63	147 33	31	34 39	40	147 33	31	34 39	40	147 33
32	63 55	14	147 37	32	90 31	10	146 03	32	65 35	64	147 33	32	34 49	41	147 33	32	34 49	41	147 33
33	65 50	14	147 37	33	92 25	10	146 03	33	65 47	65	147 33	33	34 59	42	147 33	33	34 59	42	147 33
34	67 45	14	147 37	34	94 19	10	146 03	34	65 59	66	147 33	34	35 09	43	147 33	34	35 09	43	147 33
35	69 40	14	147 37	35	96 13	10	146 03	35	66 11	67	147 33	35	35 19	44	147 33	35	35 19	44	147 33
36	71 35	14	147 37	36	98 07	10	146 03	36	66 23	68	147 33	36	35 29	45	147 33	36	35 29	45	147 33
37	73 30	14	147 37	37	100 01	10	146 03	37	66 35	69	147 33	37	35 39	46	147 33	37	35 39	46	147 33
38	75 25	14	147 37	38	101 55	10	146 03	38	66 47	70	147 33	38	35 49	47	147 33	38	35 49	47	147 33
39	77 20	14	147 37	39	103 49	10	146 03	39	66 59	71	147 33	39	35 59	48	147 33	39	35 59	48	147 33
40	79 15	14	147 37	40	105 43	10	146 03	40	67 11	72	147 33	40	36 09	49	147 33	40	36 09	49	147 33
41	81 10	14	147 37	41	107 37	10	146 03	41	67 23	73	147 33	41	36 19	50	147 33	41	36 19	50	147 33
42	83 05	14	147 37	42	109 31	10	146 03	42	67 35	74	147 33	42	36 29	51	147 33	42	36 29	51	147 33
43	85 00	14	147 37	43	111 25	10	146 03	43	67 47	75	147 33	43	36 39	52	147 33	43	36 39	52	147 33
44	86 55	14	147 37	44	113 19	10	146 03	44	67 59	76	147 33	44	36 49	53	147 33	44	36 49	53	147 33
45	88 50	14	147 37	45	115 13	10	146 03	45	68 11	77	147 33	45	36 59	54	147 33	45	36 59	54	147 33
46	90 45	14	147 37	46	117 07	10	146 03	46	68 23	78	147 33	46	37 09	55	147 33	46	37 09	55	147 33
47	92 40	14	147 37	47	119 01	10	146 03	47	68 35	79	147 33	47	37 19	56	147 33	47	37 19	56	147 33
48	94 35	14	147 37	48	120 95	10	146 03	48	68 47	80	147 33	48	37 29	57	147 33	48	37 29	57	147 33
49	96 30	14	147 37	49	122 89	10	146 03	49	68 59	81	147 33	49	37 39	58	147 33	49	37 39	58	147 33
50	98 25	14	147 37	50	124 83	10	146 03	50	69 11	82	147 33	50	37 49	59	147 33	50	37 49	59	147 33
51	100 20	14	147 37	51	126 77	10	146 03	51	69 23	83	147 33	51	37 59	60	147 33	51	37 59	60	147 33
52	102 15	14	147 37	52	128 71	10	146 03	52	69 35	84	147 33	52	38 09	61	147 33	52	38 09	61	147 33
53	104 10	14	147 37	53	130 65	10	146 03	53	69 47	85	147 33	53	38 19	62	147 33	53	38 19	62	147 33
54	106 05	14	147 37	54	132 59	10	146 03	54	69 59	86	147 33	54	38 29	63	147 33	54	38 29	63	147 33
55	108 00	14	147 37	55	134 53	10	146 03	55	70 11	87	147 33	55	38 39	64	147 33	55	38 39	64	147 33
56	110 00	14	147 37	56	136 47	10	146 03	56	70 23	88	147 33	56	38 49	65	147 33	56	38 49	65	147 33
57	112 00	14	147 37	57	138 41	10	146 03	57	70 35	89	147 33	57	38 59	66	147 33	57	38 59	66	147 33
58	114 00	14	147 37	58	140 35	10	146 03	58	70 47	90	147 33	58	39 09	67	147 33	58	39 09	67	147 33
59	116 00	14	147 37	59	142 29	10	146 03	59	70 59	91	147 33	59	39 19	68	147 33	59	39 19	68	147 33
60	118 00	14	147 37	60	144 23	10	146 03	60	71 11	92	147 33	60	39 29	69	147 33	60	39 29	69	147 33
61	120 00	14	147 37	61	146 17	10	146 03	61	71 23	93	147 33	61	39 39	70	147 33	61	39 39	70	147 33
62	122 00	14	147 37	62	148 11	10	146 03	62	71 35	94	147 33	62	39 49	71	147 33	62	39 49	71	147 33
63	124 00	14	147 37	63	150 05	10	146 03	63	71 47	95	147 33	63	39 59	72	147 33	63	39 59	72	147 33
64	126 00	14	147 37	64	151 99	10	146 03	64	71 59	96	147 33	64	40 09	73	147 33	64	40 09	73	147 33
65	128 00	14	147 37	65	153 93	10	146 03	65	72 11	97	147 33	65	40 19	74	147 33	65	40 19	74	147 33
66	130 00	14	147 37	66	155 87	10	146 03	66	72 23	98	147 33	66	40 29	75	147 33	66	40 29	75</	

LONGITUDINES ad quemlibet Gradum Ascensionis Rectæ cum Declinatione 65
A U S T R I A.

Gr.	Decl.	86	87	88	89	90
		Longitud.	Lat.	Longitud.	Lat.	Longitud.
1	10	10 10	10 10	10 10	10 10	10 10
2	20	20 20	20 20	20 20	20 20	20 20
3	30	30 30	30 30	30 30	30 30	30 30
4	40	40 40	40 40	40 40	40 40	40 40
5	50	50 50	50 50	50 50	50 50	50 50
6	60	60 60	60 60	60 60	60 60	60 60
7	70	70 70	70 70	70 70	70 70	70 70
8	80	80 80	80 80	80 80	80 80	80 80
9	90	90 90	90 90	90 90	90 90	90 90
10	100	100 100	100 100	100 100	100 100	100 100
11	110	110 110	110 110	110 110	110 110	110 110
12	120	120 120	120 120	120 120	120 120	120 120
13	130	130 130	130 130	130 130	130 130	130 130
14	140	140 140	140 140	140 140	140 140	140 140
15	150	150 150	150 150	150 150	150 150	150 150
16	160	160 160	160 160	160 160	160 160	160 160
17	170	170 170	170 170	170 170	170 170	170 170
18	180	180 180	180 180	180 180	180 180	180 180
19	190	190 190	190 190	190 190	190 190	190 190
20	200	200 200	200 200	200 200	200 200	200 200
21	210	210 210	210 210	210 210	210 210	210 210
22	220	220 220	220 220	220 220	220 220	220 220
23	230	230 230	230 230	230 230	230 230	230 230
24	240	240 240	240 240	240 240	240 240	240 240
25	250	250 250	250 250	250 250	250 250	250 250
26	260	260 260	260 260	260 260	260 260	260 260
27	270	270 270	270 270	270 270	270 270	270 270
28	280	280 280	280 280	280 280	280 280	280 280
29	290	290 290	290 290	290 290	290 290	290 290
30	300	300 300	300 300	300 300	300 300	300 300
31	310	310 310	310 310	310 310	310 310	310 310
32	320	320 320	320 320	320 320	320 320	320 320
33	330	330 330	330 330	330 330	330 330	330 330
34	340	340 340	340 340	340 340	340 340	340 340
35	350	350 350	350 350	350 350	350 350	350 350
36	360	360 360	360 360	360 360	360 360	360 360
37	370	370 370	370 370	370 370	370 370	370 370
38	380	380 380	380 380	380 380	380 380	380 380
39	390	390 390	390 390	390 390	390 390	390 390
40	400	400 400	400 400	400 400	400 400	400 400
41	410	410 410	410 410	410 410	410 410	410 410
42	420	420 420	420 420	420 420	420 420	420 420
43	430	430 430	430 430	430 430	430 430	430 430
44	440	440 440	440 440	440 440	440 440	440 440
45	450	450 450	450 450	450 450	450 450	450 450
46	460	460 460	460 460	460 460	460 46	

Distantiarum a Polo VARIATIONES ad gradum quemlibet singulum
LONGITUDINIS & quintum quemque LATITUDINIS.

[illegible]

Distantiarum a Polo VARIATIONES ad gradum quemlibet singulorum
LONGITUDINIS & eundem quemque LATITUDINIS.

[illegible]

Diffantiarum a Polo VARIATIONES ad gradum quemlibet singulum
LONGITUDINIS & quintum quaque LATITUDINIS.

Latitudine in II Aultrina. Borea																																																																																																			
0	5	10	15	20	25	30	35	40	45	50	55	60	65																																																																																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300
1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	</																		

Ufus Tabularum Præcedentium Prosthaphæresium, &c.

Præcedentes Tabulæ ad quemlibet gradum Ascensionis Rectæ & Declinationis cum Borealis tum Australis, in primo Quadrante, conficiuntur; & ad integrum circulum Ascensionis rectæ, si opus fuerit, continuari possint, per præcepta in *Præfatione ad Catalogum*: Longitudinibusq; Fixarum aut Planetarum & eorum Latitudinibus ab Ascensionibus Rectis & Declinationibus datis, eruendis inserviunt; aut vicissim, ad Ascensionem Rectam & Declinationem ex illorum datis Longitudinibus & Latitudinibus inveniendas. Præcepta pro utriq; solita sua brevitate complexerit D. SHARPIUS, e cujus Litteris hæc transcripsi.

Datis Ascensione Rectâ } invenire { Longitudinem & Latitudinem
Longitudine & Latitudine } Redam Ascensionem & Declinationem } opæ
Tabularum Prosthaphæresium & Latitudinum.

PRÆCEPTUM 1. Cum Ascensione Rectâ } inveniatur competens Longitudo } in prima
Longitudine } recta Ascensio } Tabula cui titulus *Longitudines Competentes*, Pag. 1; & si Ascensio Rectâ vel Longitudo major erit gradibus 180°, demantur e data 180°, & cum residua ingrediatur dicta Tabula indeque eruatur competens Longitudo } cui additis 180 gradibus dabitur competens recta Ascensio } quæsitâ.

PRÆCEPTUM 2. Ingrediatur Tabula *Subsidiaria, secundi Voluminis*, Pag. 18; & cum Ascensione Rectâ } juxta ibi post Tabulas præcepta, eruatur distantia Eclipticæ a Polo, quæ
Longitudine } si major sit 90 gradibus, ejus excessus supra 90°, erit *Arcus*, Australis, quod si minor sit 90°, ejus ad 90° complementum erit *Arcus* Borealis.

PRÆCEPTUM 3. Si datæ Fixæ vel Planetæ Declinatio, & hic Arcus sint ejusdem } de-
nominationis, sumetur illorum summa } hæc erit qui appellatur, in *Præfatione ad Catalogum*,
differentia } *Arcus interceptus*.

PRÆCEPTUM 4. Cum recta Ascensione } data a latere & hac summa } a capite in
Longitudine } Area Tabulæ Longitudinum, eruatur Prosthaphæresis } { Longitudinis
Ascensionis rectæ } & in Tabula La-
titudinum Latitudo } quæsitâ.
vel Declinatio }

PRÆCEPTUM 5. Si summa fuerit adhibita, Declinatio } quæsitâ erit ejusdem denominationis
Latitudo } cum { Latitudine } data, & Prosthaphæresis in { 1° & 3° } Quadrantibus erunt subtrahendæ }
Declinatione } addendæ }
Ascensionis rectæ } competenti Longitudini } per præceptum primum inventæ.

PRÆCEPTUM 6. Quandocunque differentia adhibita fuerit, *Arcusque* ea sit minor } De-
clinatio vel Latitudo quæsitâ erit ejusdem } denominationis Latitudini vel Declinationi datæ,
contrariæ } & Prosthaphæreses in 1° & 3° Quadrantibus addendæ } in 2° & 4° Quadrantibus subtrahendæ }
Ascensionis rectæ vel Longitudini competenti, antedictæ. vel addendæ }

Sequens Tabula, quatuor exempla Longitudinum & Latitudinum ex Ascensionibus rectis datis & Declinationibus derivatarum exhibebit; totidemque Ascensionum rectarum & Declinationum, e datis Longitudinibus & Latitudinibus.

Stellarum Nomen	Rect. Asc. data	Declin. data	Arcus summa vel differentia	Simplex Longit.	Prosthaphæresis	Longit. vera	Latitudo
1	0 1 17	0 1 17	0 1 17	0 1 17	0 1 17	0 1 17	0 1 17
Oculus & Anst. Pall.	64 32 20	17 30 30 D.	Arc. 22 25 07 Dif. 1 34 47	66 34 31	0 57 35 60	67 27 00	1 29 49 N
Canis Major. Syrius	57 32 30	16 19 15 A	Arc. 23 27 8 Sum. 39 26 33	57 13 45	2 35 13 40	59 49 00	39 32 28 A
Arcturus	210 23 30	20 49 00 N	Arc. 12 23 28 Sum. 32 23 28	222 34 45	22 40 26 60	199 53 57	30 56 59 S
Lectia Vulnæ	193 54 00	8 5 5 A	Arc. 21 29 49 Sum. 39 44 34	224 7 7	5 16 16 40	197 23 25	29 19 10 S

Stellarum

Stellorum Nomina	Longit. data	Latitudo data	Arcti & Summa vel differentia.	Rect. Asc. Simp.	Prosthaphaera	Rect. Asc. vera	Declinat. vera
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
Capella	77 31 41	22 19 48 R	Arct. 23 19 14 Sum. 48 11 2	78 31 17	5 1 39 60	73 17 58	17 14 R
Cassiopea	107 37 30	20 03 48 R	Arct. 22 40 30 Sum. 13 44 18	104 39 45	4 1 14 30	100 40 19	13 18 4 R
Canis Maior	107 37 30	44 31 17 R	Arct. 14 37 11 Sum. 19 14 1	110 31 16	40 1 36 30	120 34 00	61 11 30 R
Cygni Crux	31 00 31	39 16 17 R	Arct. 22 73 07 Sum. 48 1 10	30 31 47	11 31 16 60	307 40 37	47 48 00 R

Prosthaphæresium & Latitudinum Tabulas sequuntur, *Longitudinum Tabula* ad quemlibet gradum Ascensionis rectæ & Declinationis, in primo Quadrante, supputatæ; quibus explicandis non opus erit præceptis pluribus, pauca duntaxat exempla sufficient; ad Methodum adhibendi illustrandam.

In primo Quadrante, datur Ascensio recta *Cassiopeæ Sebedis*, α , $5^{\circ} 49' 00''$, & Declinatio ejus $54^{\circ} 50' 15''$ Borea, cujus Longitudo & Latitudo ex inde queritur.

Adeundo propterea Tabulas Longitudinum cum data Ascensione recta, in extrema a sinistra columna (quoniam Latitudo Borealis est) & cum Declinatione à capite, inde excerpitur in Area (consideratis etiam secundis differentiis) $33^{\circ} 20' 21''$, hæc est Longitudo Stellæ, γ $3^{\circ} 20' 21''$.

Iterum. *Eridiani (Prolemæ 19)* Quæ duarum, in 8^o ductu, post flexum sequitur: Ascensio recta data est $63^{\circ} 05' 00''$ & ejusdem Declinatio Australis $34^{\circ} 44' 35''$. Adeundo propterea dictas Longitudinum Tabulas in margine, illius paginæ 45, cui in fronte titulus est Australis; sub $34^{\circ} 44' 35''$, ejusdem Declinatione, consideratis etiam differentiis secundis, Longitudo in Area excerpitur $50^{\circ} 06' 06''$, hoc est γ $20^{\circ} 06' 06''$, Longitudo Stellæ vera. Harum & sequentium Fixarum Latitudines ab Ecliptica investigari possint, per præcepta secundum & tertium præcedentia, quorum exempla dantur in quatuor prioribus Fixis, præcedentis Tabula.

In secundo Quadrante, vel quando Ascensio recta major sit 90° , & minor gradibus 180 , subducetur Ascensio recta data ab 180° , & cum residuo Arcti, a latere, & Declinatione data à capite, sub proprio titulo, eruat in Area Longitudo ipsi respondens, hujus complementum ad 180° erit vera Longitudo Stellæ à 1^o puncto T^o.

Exemplum. Ascensio recta *Borealis* in sinistro pede *Ursæ Majoris*, est $129^{\circ} 28' 00''$, & ejusdem à Polo Mundi boreo, distantia $40^{\circ} 46' 30''$, propterea ejus Declinatio est $49^{\circ} 13' 10''$ Borea. Adeundo propterea Tabulam Longitudinum cum data Declinatione, à capite, in pagina 50, sub titulo Borealis, & cum complemento Ascensionis rectæ data, ad semicirculum $50^{\circ} 32' 00''$, in margine, eruat in Area $61^{\circ} 29' 12''$, cujus complementum ad 180° , erit $118^{\circ} 30' 48''$, vel γ $28^{\circ} 30' 48''$, vera Longitudo hujus Stellæ.

Iterum. Ascensio recta *Fixæ in poplite dextri Cruris*, vel 2^o ad α , *Canis Majoris*, est $99^{\circ} 27' 00''$, cujus ad 180° complementum est $80^{\circ} 33' 00''$, ejusdem Fixæ distantia à Polo Mundi boreo, est $122^{\circ} 10' 30''$ quæmobrem ejusdem Declinatio est $32^{\circ} 10' 30''$ Australis, Longitudo ejus reperitur.

Adeundo propterea Tabulam Longitudinum, cum $32^{\circ} 10' 30''$, Declinationis Australis, in capite, & complemento, ad 180° , Ascensionis rectæ $80^{\circ} 33'$ in margine, eruat in Area $75^{\circ} 54' 26''$, ejus complementum $104^{\circ} 05' 34''$, vel γ $14^{\circ} 05' 34''$ est Longitudo quæsitæ.

Iterum. Ascensio recta *Fixæ, trium post 20^{am} Hydrae* (in triangulo medio) datur $171^{\circ} 08' 45''$, cujus ad 180° complementum est $8^{\circ} 51' 15''$. Ejusdem distantia à Polo Mundi $123^{\circ} 00' 40''$, & Declinatio propterea Australis $33^{\circ} 00' 40''$ sub qua, à capite, in Tabula Longitudinum, & $8^{\circ} 51' 45''$ in margine reperiatur in Area $353^{\circ} 12' 22''$, cujus complemento $6^{\circ} 47' 38''$ addendo semicirculum; vel gradus 180 , fiet $186^{\circ} 47' 38''$; vel γ $6^{\circ} 47' 38''$ quæ vera est hujus Fixæ Longitudo.

In tertio Quadrante: Quandocunque Ascensio Recta major est 180° , & minor quam 270° , subtrahentur 180° à data Ascensione recta. Cum Arcti residuo à latere, & data Declinatione, (mutata ejus denominatione) in capite excerpitur Longitudo in Area, cui si addentur 180° , habebitur vera Longitudo. Exempli gratia. Ascensio recta *Fixæ in dextro Humero Centauri* δ , est $207^{\circ} 08' 00''$, à qua subductis 180° manent $27^{\circ} 08' 00''$, ejus Declinatio Australis est $34^{\circ} 48' 35''$, quocum à capite, adeundo Tabulas Longitudinum, sub Boreali Declinatione (contraria scilicet, ejus quam re vera habet) & $27^{\circ} 08' 00''$ in margine, excerpitur in Area, consideratis etiam differentiis secundis, Longitudo $38^{\circ} 00' 07''$, cui si addentur 180° , vera habebitur Fixæ Longitudo γ $8^{\circ} 00' 18''$.

Iterum. Ascensio recta *Fixæ, quam Tycho appellat infernum sub Cauda Ursæ Majoris*, Hevelius tamen est in *Anulo armillæ Chæri Canum Venaticorum*, est $190^{\circ} 21' 15''$, à qua subductis 180° residuum erit $10^{\circ} 21' 15''$ ejus autem à Polo distantia est $50^{\circ} 00' 00''$, ergo Declinatio Borea $40^{\circ} 00' 00''$.

Adeundo ergo Tabulas cum Declinatione $40^{\circ} 00' 00''$, Australi à capite, & $10^{\circ} 21' 15''$ Ascensionis rectæ in margine, deprometur in Area $350^{\circ} 13' 22''$ quibus additis 180° conficietur Longitudo vera Stellæ $170^{\circ} 13' 22''$, vel γ $20^{\circ} 13' 22''$.

In quarto Quadrante: Vel quando Ascensio recta major est quam 270° , & minor quam 360° , auferenda est Ascensio recta data a 360° , & cum residuo in margine & declinatione (sed contraria denominationis) eruenda est in Area Longitudo, quæ subducta à 360° , Stellæ veram Longitudinem dabit.

Exemp. Ascensio recta Stellæ μ , in Australi pinna Pictis Australis, est $327^\circ 31' 40''$, hujus complementum ad 360° est $32^\circ 28' 20''$, ejusdem, a Polo Mundi boreo distantia est $124^\circ 27' 40''$, cujus ergo declinatio est $34^\circ 27' 40''$ Australis; adeundo quamobrem Tabulas Longitudinum cum iisdem $34^\circ 27' 40''$ Borealis declinationis (contraria scilicet data) à capite, & cum Ascensionis rectæ complemento $32^\circ 28' 20''$, in margine, excerpitur in Area $42^\circ 14' 05''$, cujus complementum ad 360° est ipsa Longitudo Stellæ $317^\circ 55' 45''$ vel $\infty 17^\circ 55' 45''$.

Iterum, Ascensio recta, media Stella in dextra ala Cygni, est $290^\circ 27' 30''$, ejus a Polo distantia $38^\circ 54' 25''$ cujus complementum ad 90° est $51^\circ 05' 35''$ ejus declinatio Borea: Adeundo ergo Tabulas cum iisdem $51^\circ 05' 35''$, Aust. a capite & $69^\circ 32' 30''$ (complemento scilicet Ascensionis rectæ data ad 360°) in margine, excerpitur in Area $46^\circ 17' 07''$, cujus ad 360° complementum $313^\circ 42' 43''$ vel $\infty 13^\circ 42' 43''$ est ipsa Stellæ quaesita Longitudo.

Manet ostendendum quomodo è datis Longitudine & Latitudine, Ascensio recta & declinatio investigari possint.

Longitudo Borealis è duabus Fixis in sinistro pede Urse Majoris, est in Catalogo $\infty 28^\circ 30' 49''$, Latitudo ejus $25^\circ 34' 32''$ Borealis, inde dictæ Stellæ, Ascensio recta & declinatio petende sunt.

Nunc Ascensiones rectæ pro Longitudinibus habendæ sunt, & Longitudines in Area, dicende sunt Ascensiones rectæ, & tunc quoniam Longitudo propositæ Fixæ subtrahenda est, juxta antedicta ab 180° , eo facto manent $61^\circ 29' 12''$, quibuscum in margine, & Latitudine $28^\circ 34' 32''$ Australi (contrariæ scilicet denominationis Latitudini data) in capite, invenitur in Area $50^\circ 31' 38''$ cujus complementum ad 180° , est $129^\circ 28' 02''$, Fixæ scilicet illius Ascensio recta quaesita.

Iterum, Queratur complementum hujus Ascensionis rectæ ad semicirculum, $50^\circ 31' 38''$ in margine & in quibus columnulis Longitudinis data complementum $61^\circ 29' 12''$ è regione stabit ipsi in Area; quod fieri, debita consideratione habita, inter 49° & 50° capitis; excerpendo ergo Longitudines ad datam Arcum $50^\circ 31' 38''$ (complementum scilicet Ascensionis rectæ nuper inventæ) sub 49° invenitur $61^\circ 24' 45''$, sub 50° , iterum $61^\circ 44' 57''$ quorum differentia est $20' 12''$, differentia autem Longitudinis datæ ($61^\circ 29' 12''$) & inventæ sub 49° declinationis ($61^\circ 24' 45''$) est $4' 26''$ erit ergo ut differentia Longitudinum (sub 49° & 50°) $20' 12''$ est ad $60'$, vel integrum gradum declinationis, ita dicta $4' 26''$ ad $13' 06''$, quibus 49° additis dabitur Stellæ Declinatio $49^\circ 13' 06''$ Borealis, & propterea ejus à Polo distantia $4^\circ 46' 54''$ à duntaxat major quam ponitur in Catalogo.

T A B U L Æ

Declinationibus }
Latitudinibus } eruendis inservientes

Constructæ ab ABRAHAMO SHARPIO.

Bor. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Latitud. supra + { Bor. } infra { Aust. }
Aust. }

34, Dec. 11, 0

[illegible]

Auf. } Latitud. cum Longitd. in { $\frac{1}{2}$ & $\frac{2}{4}$ } Quadran. exhibet Declinat. supra * { Auf. } infra { Bor. }
 Bor. } Auf. }

Auf. } Declinat. cum Ascend. rect. in $\begin{Bmatrix} 1 & 2 \\ 3 & 4 \end{Bmatrix}$ Quadran. exhibet Latitudinem ejusdem Denominatiois
Bot. }

Ch. Decl. O		1		2		3		4		5	
Latitud.	Decl. O	Latitud.	Decl. O	Latitud.	Decl. O	Latitud.	Decl. O	Latitud.	Decl. O	Latitud.	Decl. O
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	0	1	0	1	0	1	0	1	0
2	0	2	0	2	0	2	0	2	0	2	0
3	0	3	0	3	0	3	0	3	0	3	0
4	0	4	0	4	0	4	0	4	0	4	0
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19	0	19	0	19	0	19	0	19	0	19	0
20	0	20	0	20	0	20	0	20	0	20	0
21	0	21	0	21	0	21	0	21	0	21	0
22	0	22	0	22	0	22	0	22	0	22	0
23	0	23	0	23	0	23	0	23	0	23	0
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30	0	30	0	30	0	30	0	30	0	30	0
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32	0	32	0	32	0	32	0	32	0	32	0
33	0	33	0	33	0	33	0	33	0	33	0
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81	0	81	0	81	0	81	0	81	0	81	0
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96	0	96	0	96	0	96	0	96	0	96	0
97	0	97	0	97	0	97	0	97	0	97	0
98	0	98	0	98	0	98	0	98	0	98	0
99	0	99	0	99	0	99	0	99	0	99	0
100	0	100	0	100	0	100	0	100	0	100	0

Bot. } Latitud. cum Longitud. in $\begin{Bmatrix} 1 & 2 \\ 3 & 4 \end{Bmatrix}$ Quadran. exhibet Declinationem ejusdem Denominatiois
Auf. }

Bor. } Declinat. cum Ascens. rect. in { 1 & 2 } Quadrant. exhibet Latitud. supra * { Bor. } infra { Aut. }
 Aut. }

Or. Decl. 6	7	8	9	10	11
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

Aut. } Latitud. cum Longitud. in { 1 & 2 } Quadrant. exhibet Declinat. supra * { Aut. } infra { Bor. }
 Bor. }

Ault. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadrant. exhibet Latitudinem ejusdem Denominationis

Gr. Dec. 6

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86														

Bor. { Latitud. cum Longitud. in { $\frac{1}{3}$ & $\frac{3}{4}$ } Quadran. exhibet Declinationem ejusdem Denominationis
 Auf. {

In Dec. 12	12	14	15	16	17
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[illegible]

Auf. } Latitud. cum Longitud. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadrant. exhibet Declinat. supra * {Auf. } infra {Ber. }
Ber. }

Bor. } Declinat. cum Ascens. rect. in {¹ & {² } Quadrant. exhibet Latitud. supra { Bor. } infra { Aust. }
Aust. }

Gr. Decl.	18	19	20	21	22	23
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Auf. } Latitud. cum Longitud. in { 1 & 2 } Quadran. exhibet Declinat. 6
 Bor. }

Auf. } Declinat. cum Ascensu. recta. in $\left\{ \begin{smallmatrix} 1 & 2 \end{smallmatrix} \right\}$ Quadrant. exhibet Latitudinem ejusdem Denominationis
 Bor. }

Bor. } Latitud. cum Longitud. in { $\frac{1}{3} \& \frac{2}{4}$ } Quadran. exhibet Declinationem ejusdem Denominationis

1994

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1994

Aufg. } Declinat. cum Ascensu, rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ **Quadrant.** exhibet Latitudinem ejusdem Denominatiōis
 Bor. }

Ch. Decl. 24

[illegible]

Bor. } Latitud. cum Longitud. in { 1 & 2 } Quadran. exhibet Declinationem ejusdem Denominationis
 Auf. } { 3 & 4 }

Aufg. 5

Bor. } Declinat. cum Ascen. rect. in { & } 2 } Quadran. exhibet Latitudinem { Bor. }
 Auf. }

Or. Decl.	20	21	22	23	24	25
Latitud. p. Gr. L. Lat.	Latitud. p. Gr. L. Lat.	Latitud. p. Gr. L. Lat.	Latitud. p. Gr. L. Lat.	Latitud. p. Gr. L. Lat.	Latitud. p. Gr. L. Lat.	Latitud. p. Gr. L. Lat.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40	41	42
43	44	45	46	47	48	49
50	51	52	53	54	55	56
57	58	59	60	61	62	63
64	65	66	67	68	69	70
71	72	73	74	75	76	77
78	79	80	81	82	83	84
85	86	87	88	89	90	91
92	93	94	95	96	97	98
99	100	101	102	103	104	105
106	107	108	109	110	111	112
113	114	115	116	117	118	119
120	121	122	123	124	125	126
127	128	129	130	131	132	133
134	135	136	137	138	139	140
141	142	143	144	145	146	147
148	149	150	151	152	153	154
155	156	157	158	159	160	161
162	163	164	165	166	167	168
169	170	171	172	173	174	175
176	177	178	179	180	181	182
183	184	185	186	187	188	189
190	191	192	193	194	195	196
197	198	199	200	201	202	203
204	205	206	207	208	209	210
211	212	213	214	215	216	217
218	219	220	221	222	223	224
225	226	227	228	229	230	231
232	233	234	235	236	237	238
239	240	241	242	243	244	245
246	247	248	249	250	251	252
253	254	255	256	257	258	259
260	261	262	263	264	265	266
267	268	269	270	271	272	273
274	275	276	277	278	279	280
281	282	283	284	285	286	287
288	289	290	291	292	293	294
295	296	297	298	299	300	301
302	303	304	305	306	307	308
309	310	311	312	313	314	315
316	317	318	319	320	321	322
323	324	325	326	327	328	329
330	331	332	333	334	335	336
337	338	339	340	341	342	343
344	345	346	347	348	349	350
351	352	353	354	355	356	357
358	359	360	361	362	363	364
365	366	367	368	369	370	371
372	373	374	375	376	377	378
379	380	381	382	383	384	385
386	387	388	389	390	391	392
393	394	395	396	397	398	399
400	401	402	403	404	405	406
407	408	409	410	411	412	413
414	415	416	417	418	419	420
421	422	423	424	425	426	427
428	429	430	431	432	433	434
435	436	437	438	439	440	441
442	443	444	445	446	447	448
449	450	451	452	453	454	455
456	457	458	459	460	461	462
463	464	465	466	467	468	469
470	471	472	473	474	475	476
477	478	479	480	481	482	483
484	485	486	487	488	489	490
491	492	493	494	495	496	497
498	499	500	501	502	503	504
505	506	507	508	509	510	511
512	513	514	515	516	517	518
519	520	521	522	523	524	525
526	527	528	529	530	531	532
533	534	535	536	537	538	539
540	541	542	543	544	545	546
547	548	549	550	551	552	553
554	555	556	557	558	559	560
561	562	563	564	565	566	567
568	569	570	571	572	573	574
575	576	577	578	579	580	581
582	583	584	585	586	587	588
589	590	591	592	593	594	595
596	597	598	599	600	601	602
603	604	605	606	607	608	609
610	611	612	613	614	615	616
617	618	619	620	621	622	623
624	625	626	627	628	629	630
631	632	633	634	635	636	637
638	639	640	641	642	643	644
645	646	647	648	649	650	651
652	653	654	655	656	657	658
659	660	661	662	663	664	665
666	667	668	669	670	671	672
673	674	675	676	677	678	679
680	681	682	683	684	685	686
687	688	689	690	691	692	693
694	695	696	697	698	699	700
701	702	703	704	705	706	707
708	709	710	711	712	713	714
715	716	717	718	719	720	721
722	723	724	725	726	727	728
729	730	731	732	733	734	735
736	737	738	739	740	741	742
743	744	745	746	747	748	749
750	751	752	753	754	755	756
757	758	759	760	761	762	763
764	765	766	767	768	769	770
771	772	773	774	775	776	777
778	779	780	781	782	783	784
785	786	787	788	789	790	791
792	793	794	795	796	797	798
799	800	801	802	803	804	805
806	807	808	809	810	811	812
813	814	815	816	817	818	819
820	821	822	823	824	825	826
827	828	829	830	831	832	833
834	835	836	837	838	839	840
841	842	843	844	845	846	847
848	849	850	851	852	853	854
855	856	857	858	859	860	861
862	863	864	865	866	867	868
869	870	871	872	873	874	875
876	877	878	879	880	881	882
883	884	885	886	887	888	889
890	891	892	893	894	895	896
897	898	899	900	901	902	903
904	905	906	907	908	909	910
911	912	913	914	915	916	917
918	919	920	921	922	923	924
925	926	927	928	929	930	931
932	933	934	935	936	937	938
939	940	941	942	943	944	945
946	947	948	949	950	951	952
953	954	955	956	957	958	959
960	961	962	963	964	965	966
967	968	969	970	971	972	973
974	975	976	977	978	979	980
981	982	983	984	985	986	987
988	989	990	991	992	993	994
995	996	997	998	999	1000	1001

Auf. } Latitud. cum Longitud. in { & } 2 } Quadran. exhibet Declinationem { Auf. }
 Bor. }

Auff. 1. Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Latitudinem ejusdem Denominacionis

Or. Decl. 30		31		32		33		34		35	
N. Latitud.	R. Decl.	N. Latitud.	R. Decl.	N. Latitud.	R. Decl.	N. Latitud.	R. Decl.	N. Latitud.	R. Decl.	N. Latitud.	R. Decl.
0	1	0	1	0	1	0	1	0	1	0	1
1	2	1	2	1	2	1	2	1	2	1	2
2	3	2	3	2	3	2	3	2	3	2	3
3	4	3	4	3	4	3	4	3	4	3	4
4	5	4	5	4	5	4	5	4	5	4	5
5	6	5	6	5	6	5	6	5	6	5	6
6	7	6	7	6	7	6	7	6	7	6	7
7	8	7	8	7	8	7	8	7	8	7	8
8	9	8	9	8	9	8	9	8	9	8	9
9	10	9	10	9	10	9	10	9	10	9	10
10	11	10	11	10	11	10	11	10	11	10	11
11	12	11	12	11	12	11	12	11	12	11	12
12	13	12	13	12	13	12	13	12	13	12	13
13	14	13	14	13	14	13	14	13	14	13	14
14	15	14	15	14	15	14	15	14	15	14	15
15	16	15	16	15	16	15	16	15	16	15	16
16	17	16	17	16	17	16	17	16	17	16	17
17	18	17	18	17	18	17	18	17	18	17	18
18	19	18	19	18	19	18	19	18	19	18	19
19	20	19	20	19	20	19	20	19	20	19	20
20	21	20	21	20	21	20	21	20	21	20	21
21	22	21	22	21	22	21	22	21	22	21	22
22	23	22	23	22	23	22	23	22	23	22	23
23	24	23	24	23	24	23	24	23	24	23	24
24	25	24	25	24	25	24	25	24	25	24	25
25	26	25	26	25	26	25	26	25	26	25	26
26	27	26	27	26	27	26	27	26	27	26	27
27	28	27	28	27	28	27	28	27	28	27	28
28	29	28	29	28	29	28	29	28	29	28	29
29	30	29	30	29	30	29	30	29	30	29	30
30	31	30	31	30	31	30	31	30	31	30	31
31	32	31	32	31	32	31	32	31	32	31	32
32	33	32	33	32	33	32	33	32	33	32	33
33	34	33	34	33	34	33	34	33	34	33	34
34	35	34	35	34	35	34	35	34	35	34	35
35	36	35	36	35	36	35	36	35	36	35	36
36	37	36	37	36	37	36	37	36	37	36	37
37	38	37	38	37	38	37	38	37	38	37	38
38	39	38	39	38	39	38	39	38	39	38	39
39	40	39	40	39	40	39	40	39	40	39	40
40	41	40	41	40	41	40	41	40	41	40	41
41	42	41	42	41	42	41	42	41	42	41	42
42	43	42	43	42	43	42	43	42	43	42	43
43	44	43	44	43	44	43	44	43	44	43	44
44	45	44	45	44	45	44	45	44	45	44	45
45	46	45	46	45	46	45	46	45	46	45	46
46	47	46	47	46	47	46	47	46	47	46	47
47	48	47	48	47	48	47	48	47	48	47	48
48	49	48	49	48	49	48	49	48	49	48	49
49	50	49	50	49	50	49	50	49	50	49	50
50	51	50	51	50	51	50	51	50	51	50	51
51	52	51	52	51	52	51	52	51	52	51	52
52	53	52	53	52	53	52	53	52	53	52	53
53	54	53	54	53	54	53	54	53	54	53	54
54	55	54	55	54	55	54	55	54	55	54	55
55	56	55	56	55	56	55	56	55	56	55	56
56	57	56	57	56	57	56	57	56	57	56	57
57	58	57	58	57	58	57	58	57	58	57	58
58	59	58	59	58	59	58	59	58	59	58	59
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60	61	60	61	60	61	60	61	60	61	60	61
61	62	61	62	61	62	61	62	61	62	61	62
62	63	62	63	62	63	62	63	62	63	62	63
63	64	63	64	63	64	63	64	63	64	63	64
64	65	64	65	64	65	64	65	64	65	64	65
65	66	65	66	65	66	65	66	65	66	65	66
66	67	66	67	66	67	66	67	66	67	66	67
67	68	67	68	67	68	67	68	67	68	67	68
68	69	68	69	68	69	68	69	68	69	68	69
69	70	69	70	69	70	69	70	69	70	69	70
70	71	70	71	70	71	70	71	70	71	70	71
71	72	71	72	71	72	71	72	71	72	71	72
72	73	72	73	72	73	72	73	72	73	72	73
73	74	73	74	73	74	73	74	73	74	73	74
74	75	74	75	74	75	74	75	74	75	74	75
75	76	75	76	75	76	75	76	75	76	75	76
76	77	76	77	76	77	76	77	76	77	76	77
77	78	77	78	77	78	77	78	77	78	77	78
78	79	78	79	78	79	78	79	78	79	78	79
79	80	79	80	79	80	79	80	79	80	79	80
80	81	80	81	80	81	80	81	80	81	80	81
81	82	81	82	81	82	81	82	81	82	81	82
82	83	82	83	82	83	82	83	82	83	82	83
83	84	83	84	83	84	83	84	83	84	83	84
84	85	84	85	84	85	84	85	84	85	84	85
85	86	85	86	85	86	85	86	85	86	85	86
86	87	86	87	86	87	86	87	86	87	86	87
87	88	87	88	87	88	87	88	87	88	87	88
88	89	88	89	88	89	88	89	88	89	88	89
89	90	89	90	89	90	89	90	89	90	89	90
90	91	90	91	90	91	90	91	90	91	90	91
91	92	91	92	91	92	91	92	91	92	91	92
92	93	92	93	92	93	92	93	92	93	92	93
93	94	93	94	93	94	93	94	93	94	93	94
94	95	94	95	94	95	94	95	94	95	94	95
95	96	95	96	95	96	95	96	95	96	95	96
96	97	96	97	96	97	96	97	96	97	96	97
97	98	97	98	97	98	97	98	97	98	97	98
98	99	98	99	98	99	98	99	98	99	98	99
99	100	99	100	99	100	99	100	99	100	99	100

Bo. 1. Latitud. cum Longitud. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Declinationem ejusdem Denominacionis

Auf. } Declinat. cum Ascens. rect. in $\begin{Bmatrix} 1 & 2 \\ 3 & 4 \end{Bmatrix}$ Quadrant. exhibet Latitudinem ejusdem Denominationis
 Bor. }

37				38				39				40				41			
Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.		
37 27 21	13 28 30	37 28 30	13 29 30	37 29 30	13 30 30	37 30 30	13 31 30	37 31 30	13 32 30	37 32 30	13 33 30	37 33 30	13 34 30	37 34 30	13 35 30	37 35 30	13 36 30		
37 37 21	13 38 30	37 38 30	13 39 30	37 39 30	13 40 30	37 40 30	13 41 30	37 41 30	13 42 30	37 42 30	13 43 30	37 43 30	13 44 30	37 44 30	13 45 30	37 45 30	13 46 30		
37 47 21	13 48 30	37 48 30	13 49 30	37 49 30	13 50 30	37 50 30	13 51 30	37 51 30	13 52 30	37 52 30	13 53 30	37 53 30	13 54 30	37 54 30	13 55 30	37 55 30	13 56 30		
37 57 21	13 58 30	37 58 30	13 59 30	37 59 30	14 00 30	38 00 30	14 01 30	38 01 30	14 02 30	38 02 30	14 03 30	38 03 30	14 04 30	38 04 30	14 05 30	38 05 30	14 06 30		
38 07 21	14 08 30	38 08 30	14 09 30	38 09 30	14 10 30	38 10 30	14 11 30	38 11 30	14 12 30	38 12 30	14 13 30	38 13 30	14 14 30	38 14 30	14 15 30	38 15 30	14 16 30		
38 17 21	14 18 30	38 18 30	14 19 30	38 19 30	14 20 30	38 20 30	14 21 30	38 21 30	14 22 30	38 22 30	14 23 30	38 23 30	14 24 30	38 24 30	14 25 30	38 25 30	14 26 30		
38 27 21	14 28 30	38 28 30	14 29 30	38 29 30	14 30 30	38 30 30	14 31 30	38 31 30	14 32 30	38 32 30	14 33 30	38 33 30	14 34 30	38 34 30	14 35 30	38 35 30	14 36 30		
38 37 21	14 38 30	38 38 30	14 39 30	38 39 30	14 40 30	38 40 30	14 41 30	38 41 30	14 42 30	38 42 30	14 43 30	38 43 30	14 44 30	38 44 30	14 45 30	38 45 30	14 46 30		
38 47 21	14 48 30	38 48 30	14 49 30	38 49 30	14 50 30	38 50 30	14 51 30	38 51 30	14 52 30	38 52 30	14 53 30	38 53 30	14 54 30	38 54 30	14 55 30	38 55 30	14 56 30		
38 57 21	14 58 30	38 58 30	14 59 30	38 59 30	15 00 30	39 00 30	15 01 30	39 01 30	15 02 30	39 02 30	15 03 30	39 03 30	15 04 30	39 04 30	15 05 30	39 05 30	15 06 30		
39 07 21	15 08 30	39 08 30	15 09 30	39 09 30	15 10 30	39 10 30	15 11 30	39 11 30	15 12 30	39 12 30	15 13 30	39 13 30	15 14 30	39 14 30	15 15 30	39 15 30	15 16 30		
39 17 21	15 18 30	39 18 30	15 19 30	39 19 30	15 20 30	39 20 30	15 21 30	39 21 30	15 22 30	39 22 30	15 23 30	39 23 30	15 24 30	39 24 30	15 25 30	39 25 30	15 26 30		
39 27 21	15 28 30	39 28 30	15 29 30	39 29 30	15 30 30	39 30 30	15 31 30	39 31 30	15 32 30	39 32 30	15 33 30	39 33 30	15 34 30	39 34 30	15 35 30	39 35 30	15 36 30		
39 37 21	15 38 30	39 38 30	15 39 30	39 39 30	15 40 30	39 40 30	15 41 30	39 41 30	15 42 30	39 42 30	15 43 30	39 43 30	15 44 30	39 44 30	15 45 30	39 45 30	15 46 30		
39 47 21	15 48 30	39 48 30	15 49 30	39 49 30	15 50 30	39 50 30	15 51 30	39 51 30	15 52 30	39 52 30	15 53 30	39 53 30	15 54 30	39 54 30	15 55 30	39 55 30	15 56 30		
39 57 21	15 58 30	39 58 30	15 59 30	39 59 30	16 00 30	40 00 30	16 01 30	40 01 30	16 02 30	40 02 30	16 03 30	40 03 30	16 04 30	40 04 30	16 05 30	40 05 30	16 06 30		
40 07 21	16 08 30	40 08 30	16 09 30	40 09															

Bor. } Latitud. cum Longitud. in { 1 & 2 } Quadran. exhibet Declinationem ejusdem Denominationis
 Aut. } 3 & 4

Eor. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadrag. exhibet Latitudinem { Eor. }
 Aust. }

[illegible]

Auf. } Latitud. cum Longitud. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadrant. exhibet Declinationem { Auf.

Auf. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Latitudinem ejusdem Denominationis
 Bor. }

Ch. Deeds 42

42

44

82

4

4

[illegible]

Bor. } Latitud. cum Longitud. in $\begin{Bmatrix} 1 & 2 \\ 3 & 4 \end{Bmatrix}$ Quadrant. exhibet Declinationem ejusdem Denominationis
 Aut. }

$\left. \begin{array}{l} \text{Eor.} \\ \text{Aust.} \end{array} \right\} \text{Declinat. cum Ascens. rect. in } \left\{ \begin{array}{l} 1 \\ 3 \end{array} \text{ \& } \begin{array}{l} 2 \\ 4 \end{array} \right\} \text{Quadrans. exhibet Latitudinem } \left\{ \begin{array}{l} \text{Eor.} \\ \text{Aust.} \end{array} \right\}$

[illegible]

Auf. } Latitud. cum Longitud. in { $\frac{1}{2} \times 2$ } Quadrant. exhibet Dec^l. tionem { Auf.
Bor. } Bor.

Auf. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadr. exhibet Latitudinem ejusdem Denominations
 Bot. }

Gr. Decl.	42	42	50	51	52	53
Latitud.	Latitud.	Latitud.	Latitud.	Latitud.	Latitud.	Latitud.
Gr. Decl.	42	42	50	51	52	53
0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75
76	76	76	76	76	76	76
77	77	77	77	77	77	77
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	80	80	80	80	80	80
81	81	81	81	81	81	81
82	82	82	82	82	82	82
83	83	83	83	83	83	83
84	84	84	84	84	84	84
85	85	85	85	85	85	85
86	86	86	86	86	86	86
87	87	87	87	87	87	87
88	88	88	88	88	88	88
89	89	89	89	89	89	89
90	90	90	90	90	90	90
91	91	91	91	91	91	91
92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
98	98	98	98	98	98	98
99	99	99	99	99	99	99
100	100	100	100	100	100	100

Bot. } Latitud. cum Longitud. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadr. exhibet Declinationem ejusdem Denominations
 Auf. }

Bor. } Declinat. cum Ascens. red. in $\begin{Bmatrix} 1 & 2 \\ 3 & 4 \end{Bmatrix}$ Quadr. exhibet Latitudinem { Bor. }
 Auf. }

Gr. Decl.	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90																																											
Latitud.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90										

Auf. } Latitud. cum Longitud. in $\begin{Bmatrix} 1 & 2 \\ 3 & 4 \end{Bmatrix}$ Quadr. exhibet Declin. et non { Auf. }
 Bor. }

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																				

Hor. } Latitud. cum Longitud. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadrum exhibet Declinationem ejusdem Denominationis
 Aut. }

Bor. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Latitudinem { Bor.
Aust. }

[illegible]

Auf. } Latitud. cum Longitud. in { 1 & 2 } Quadrant. exhibet Declinationem { Auf. }
 Bor. } { 3 & 4 } { Bor. }

Bor. } Latitude cum Longitud. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Declinationem ejusdem Denominationis
 Auf. }

Bor. } Declinat. cum Ascens. rect. in { 1 & 2 } Quadr. exhibet Latitudinem { Bor. }
 Auf. } Auf.

Ge. Decl. 66	67	68	69	70	71
1. 37 15 2. 39 41 3. 42 17 4. 44 53 5. 47 29 6. 50 05 7. 52 41 8. 55 17 9. 57 53 10. 60 29 11. 63 05 12. 65 41 13. 68 17 14. 70 53 15. 73 29 16. 76 05 17. 78 41 18. 81 17 19. 83 53 20. 86 29 21. 89 05 22. 91 41 23. 94 17 24. 96 53 25. 99 29 26. 102 05 27. 104 41 28. 107 17 29. 109 53 30. 112 29 31. 115 05 32. 117 41 33. 120 17 34. 122 53 35. 125 29 36. 128 05 37. 130 41 38. 133 17 39. 135 53 40. 138 29 41. 141 05 42. 143 41 43. 146 17 44. 148 53 45. 151 29 46. 154 05 47. 156 41 48. 159 17 49. 161 53 50. 164 29 51. 167 05 52. 169 41 53. 172 17 54. 174 53 55. 177 29 56. 180 05 57. 182 41 58. 185 17 59. 187 53 60. 190 29 61. 193 05 62. 195 41 63. 198 17 64. 200 53 65. 203 29 66. 206 05 67. 208 41 68. 211 17 69. 213 53 70. 216 29 71. 219 05 72. 221 41 73. 224 17 74. 226 53 75. 229 29 76. 232 05 77. 234 41 78. 237 17 79. 239 53 80. 242 29 81. 245 05 82. 247 41 83. 250 17 84. 252 53 85. 255 29 86. 258 05 87. 260 41 88. 263 17 89. 265 53 90. 268 29 91. 271 05 92. 273 41 93. 276 17 94. 278 53 95. 281 29 96. 284 05 97. 286 41 98. 289 17 99. 291 53 100. 294 29	1. 38 15 2. 40 41 3. 43 17 4. 45 53 5. 48 29 6. 51 05 7. 53 41 8. 56 17 9. 58 53 10. 61 29 11. 64 05 12. 66 41 13. 69 17 14. 71 53 15. 74 29 16. 77 05 17. 79 41 18. 82 17 19. 84 53 20. 87 29 21. 90 05 22. 92 41 23. 95 17 24. 97 53 25. 100 29 26. 103 05 27. 105 41 28. 108 17 29. 110 53 30. 113 29 31. 116 05 32. 118 41 33. 121 17 34. 123 53 35. 126 29 36. 129 05 37. 131 41 38. 134 17 39. 136 53 40. 139 29 41. 142 05 42. 144 41 43. 147 17 44. 149 53 45. 152 29 46. 155 05 47. 157 41 48. 160 17 49. 162 53 50. 165 29 51. 168 05 52. 170 41 53. 173 17 54. 175 53 55. 178 29 56. 181 05 57. 183 41 58. 186 17 59. 188 53 60. 191 29 61. 194 05 62. 196 41 63. 199 17 64. 201 53 65. 204 29 66. 207 05 67. 209 41 68. 212 17 69. 214 53 70. 217 29 71. 220 05 72. 222 41 73. 225 17 74. 227 53 75. 230 29 76. 233 05 77. 235 41 78. 238 17 79. 240 53 80. 243 29 81. 246 05 82. 248 41 83. 251 17 84. 253 53 85. 256 29 86. 259 05 87. 261 41 88. 264 17 89. 266 53 90. 269 29 91. 272 05 92. 274 41 93. 277 17 94. 279 53 95. 282 29 96. 285 05 97. 287 41 98. 290 17 99. 292 53 100. 295 29	1. 39 15 2. 41 41 3. 44 17 4. 46 53 5. 49 29 6. 52 05 7. 54 41 8. 57 17 9. 59 53 10. 62 29 11. 65 05 12. 67 41 13. 70 17 14. 72 53 15. 75 29 16. 78 05 17. 80 41 18. 83 17 19. 85 53 20. 88 29 21. 91 05 22. 93 41 23. 96 17 24. 98 53 25. 101 29 26. 104 05 27. 106 41 28. 109 17 29. 111 53 30. 114 29 31. 117 05 32. 119 41 33. 122 17 34. 124 53 35. 127 29 36. 130 05 37. 132 41 38. 135 17 39. 137 53 40. 140 29 41. 143 05 42. 145 41 43. 148 17 44. 150 53 45. 153 29 46. 156 05 47. 158 41 48. 161 17 49. 163 53 50. 166 29 51. 169 05 52. 171 41 53. 174 17 54. 176 53 55. 179 29 56. 182 05 57. 184 41 58. 187 17 59. 189 53 60. 192 29 61. 195 05 62. 197 41 63. 200 17 64. 202 53 65. 205 29 66. 208 05 67. 210 41 68. 213 17 69. 215 53 70. 218 29 71. 221 05 72. 223 41 73. 226 17 74. 228 53 75. 231 29 76. 234 05 77. 236 41 78. 239 17 79. 241 53 80. 244 29 81. 247 05 82. 249 41 83. 252 17 84. 254 53 85. 257 29 86. 260 05 87. 262 41 88. 265 17 89. 267 53 90. 270 29 91. 273 05 92. 275 41 93. 278 17 94. 280 53 95. 283 29 96. 286 05 97. 288 41 98. 291 17 99. 293 53 100. 296 29	1. 40 15 2. 42 41 3. 45 17 4. 47 53 5. 50 29 6. 53 05 7. 55 41 8. 58 17 9. 60 53 10. 63 29 11. 66 05 12. 68 41 13. 71 17 14. 73 53 15. 76 29 16. 79 05 17. 81 41 18. 84 17 19. 86 53 20. 89 29 21. 92 05 22. 94 41 23. 97 17 24. 99 53 25. 102 29 26. 105 05 27. 107 41 28. 110 17 29. 112 53 30. 115 29 31. 118 05 32. 120 41 33. 123 17 34. 125 53 35. 128 29 36. 131 05 37. 133 41 38. 136 17 39. 138 53 40. 141 29 41. 144 05 42. 146 41 43. 149 17 44. 151 53 45. 154 29 46. 157 05 47. 159 41 48. 162 17 49. 164 53 50. 167 29 51. 170 05 52. 172 41 53. 175 17 54. 177 53 55. 180 29 56. 183 05 57. 185 41 58. 188 17 59. 190 53 60. 193 29 61. 196 05 62. 198 41 63. 201 17 64. 203 53 65. 206 29 66. 209 05 67. 211 41 68. 214 17 69. 216 53 70. 219 29 71. 222 05 72. 224 41 73. 227 17 74. 229 53 75. 232 29 76. 235 05 77. 237 41 78. 240 17 79. 242 53 80. 245 29 81. 248 05 82. 250 41 83. 253 17 84. 255 53 85. 258 29 86. 261 05 87. 263 41 88. 266 17 89. 268 53 90. 271 29 91. 274 05 92. 276 41 93. 279 17 94. 281 53 95. 284 29 96. 287 05 97. 289 41 98. 292 17 99. 294 53 100. 297 29	1. 41 15 2. 43 41 3. 46 17 4. 48 53 5. 51 29 6. 54 05 7. 56 41 8. 59 17 9. 61 53 10. 64 29 11. 67 05 12. 69 41 13. 72 17 14. 74 53 15. 77 29 16. 80 05 17. 82 41 18. 85 17 19. 87 53 20. 90 29 21. 93 05 22. 95 41 23. 98 17 24. 100 53 25. 103 29 26. 106 05 27. 108 41 28. 111 17 29. 113 53 30. 116 29 31. 119 05 32. 121 41 33. 124 17 34. 126 53 35. 129 29 36. 132 05 37. 134 41 38. 137 17 39. 139 53 40. 142 29 41. 145 05 42. 147 41 43. 150 17 44. 152 53 45. 155 29 46. 158 05 47. 160 41 48. 163 17 49. 165 53 50. 168 29 51. 171 05 52. 173 41 53. 176 17 54. 178 53 55. 181 29 56. 184 05 57. 186 41 58. 189 17 59. 191 53 60. 194 29 61. 197 05 62. 199 41 63. 202 17 64. 204 53 65. 207 29 66. 210 05 67. 212 41 68. 215 17 69. 217 53 70. 220 29 71. 223 05 72. 225 41 73. 228 17 74. 230 53 75. 233 29 76. 236 05 77. 238 41 78. 241 17 79. 243 53 80. 246 29 81. 249 05 82. 251 41 83. 254 17 84. 256 53 85. 259 29 86. 262 05 87. 264 41 88. 267 17 89. 269 53 90. 272 29 91. 275 05 92. 277 41 93. 280 17 94. 282 53 95. 285 29 96. 288 05 97. 290 41 98. 293 17 99. 295 53 100. 298 29	

Auf. } Latitud. cum Longitud. in { 1 & 2 } Quadr. exhibet Declinatione { Auf. }
 Bor. } Bor.

Auß. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Latitudinem ejusdem Denominationis
 Bor. }

Gr. Decl. 66										67										68										69										70										71																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Bor. } Declinat. cum Ascens. rect. in {¹ & ²} Quadran. exhibet Latitudinem {Bor. }
 Auf. } ₃ & ₄ } Auf. }

Co. D-28-78

79

20

81

93

83

Auf. } Latitud. cum Longitud. in { 1 & 2 } Quadrant. exhibet Declinationem { Auf. }
 Bor. } 1

Bor. } Declinat. cum Ascens. rect. in $\left\{ \begin{smallmatrix} 1 & 2 \\ 3 & 4 \end{smallmatrix} \right\}$ Quadran. exhibet Latitudinem { Bor. }
Aust. }

[illegible]

Auf. } Latitud. cum Longitud. in { $\frac{1}{3}$ & $\frac{2}{4}$ } Quadran. exhibet Declinationem { Auf.
 Bor. }

Voluminis Tertii & Ultimi

F I N I S.

ERRATA TERTII VOLUMINIS.

In Prolegomenis.

Port. Lib.	Pro	Laps.
11	1) <i>Arctur. Virgine</i>	
12	2) <i>port. can. que</i>	<i>addatur Timocoritis</i>
13	3) <i>Arctur. Virgine</i>	
14	4) <i>Libra</i>	
15	5) <i>Libra</i>	
16	6) <i>Virgine</i>	
17	7) <i>Virgine</i>	
18	8) <i>Virgine *</i>	
19	9) <i>port. Uel</i>	<i>Laps. Primi</i>
20	10) <i>addatur Luca</i>	
21	11) <i>port. Arctur.</i>	<i>Laps. Arctur.</i>
22	12) <i>addatur Stellarum</i>	
23	13) <i>Opifex</i>	<i>Opifex</i>
24	14) <i>Pinetelli</i>	<i>Pinetelli</i>
25	15) <i>Hamardo</i>	<i>Hamardo</i>
26	16) <i>Lumina</i>	<i>Lumina</i>
27	17) <i>Peden</i>	<i>Dignus</i>
28	18) <i>Idem</i>	<i>Idem</i>
29	19) <i>Cognitiones</i>	<i>Cognitiones</i>
30	20) <i>Supplicia</i>	<i>Supplicia</i>
31	21) <i>Idem</i>	<i>Idem</i>
32	22) <i>Idem</i>	<i>Idem</i>
33	23) <i>Idem</i>	<i>Idem</i>
34	24) <i>Idem</i>	<i>Idem</i>
35	25) <i>Idem</i>	<i>Idem</i>
36	26) <i>Idem</i>	<i>Idem</i>
37	27) <i>Idem</i>	<i>Idem</i>
38	28) <i>Idem</i>	<i>Idem</i>
39	29) <i>Idem</i>	<i>Idem</i>
40	30) <i>Idem</i>	<i>Idem</i>
41	31) <i>Idem</i>	<i>Idem</i>
42	32) <i>Idem</i>	<i>Idem</i>
43	33) <i>Idem</i>	<i>Idem</i>
44	34) <i>Idem</i>	<i>Idem</i>
45	35) <i>Idem</i>	<i>Idem</i>
46	36) <i>Idem</i>	<i>Idem</i>
47	37) <i>Idem</i>	<i>Idem</i>
48	38) <i>Idem</i>	<i>Idem</i>
49	39) <i>Idem</i>	<i>Idem</i>
50	40) <i>Idem</i>	<i>Idem</i>
51	41) <i>Idem</i>	<i>Idem</i>
52	42) <i>Idem</i>	<i>Idem</i>
53	43) <i>Idem</i>	<i>Idem</i>
54	44) <i>Idem</i>	<i>Idem</i>
55	45) <i>Idem</i>	<i>Idem</i>
56	46) <i>Idem</i>	<i>Idem</i>
57	47) <i>Idem</i>	<i>Idem</i>
58	48) <i>Idem</i>	<i>Idem</i>
59	49) <i>Idem</i>	<i>Idem</i>
60	50) <i>Idem</i>	<i>Idem</i>
61	51) <i>Idem</i>	<i>Idem</i>
62	52) <i>Idem</i>	<i>Idem</i>
63	53) <i>Idem</i>	<i>Idem</i>
64	54) <i>Idem</i>	<i>Idem</i>
65	55) <i>Idem</i>	<i>Idem</i>
66	56) <i>Idem</i>	<i>Idem</i>
67	57) <i>Idem</i>	<i>Idem</i>
68	58) <i>Idem</i>	<i>Idem</i>
69	59) <i>Idem</i>	<i>Idem</i>
70	60) <i>Idem</i>	<i>Idem</i>
71	61) <i>Idem</i>	<i>Idem</i>
72	62) <i>Idem</i>	<i>Idem</i>
73	63) <i>Idem</i>	<i>Idem</i>
74	64) <i>Idem</i>	<i>Idem</i>
75	65) <i>Idem</i>	<i>Idem</i>
76	66) <i>Idem</i>	<i>Idem</i>
77	67) <i>Idem</i>	<i>Idem</i>
78	68) <i>Idem</i>	<i>Idem</i>
79	69) <i>Idem</i>	<i>Idem</i>
80	70) <i>Idem</i>	<i>Idem</i>
81	71) <i>Idem</i>	<i>Idem</i>
82	72) <i>Idem</i>	<i>Idem</i>
83	73) <i>Idem</i>	<i>Idem</i>
84	74) <i>Idem</i>	<i>Idem</i>
85	75) <i>Idem</i>	<i>Idem</i>
86	76) <i>Idem</i>	<i>Idem</i>
87	77) <i>Idem</i>	<i>Idem</i>
88	78) <i>Idem</i>	<i>Idem</i>
89	79) <i>Idem</i>	<i>Idem</i>
90	80) <i>Idem</i>	<i>Idem</i>
91	81) <i>Idem</i>	<i>Idem</i>
92	82) <i>Idem</i>	<i>Idem</i>
93	83) <i>Idem</i>	<i>Idem</i>
94	84) <i>Idem</i>	<i>Idem</i>
95	85) <i>Idem</i>	<i>Idem</i>
96	86) <i>Idem</i>	<i>Idem</i>
97	87) <i>Idem</i>	<i>Idem</i>
98	88) <i>Idem</i>	<i>Idem</i>
99	89) <i>Idem</i>	<i>Idem</i>
100	90) <i>Idem</i>	<i>Idem</i>

Fol. Lis.	Pro	Legt.
101	inferobar	inferbar
129	adoblar Obderentes	
148	adoblar prosit la Libro de Seis, pagina 189, post	
148	Margio, adoblar Matusur 71,	
154	B. Queda	Qreda
155	adoblar	adoblar
156	adoblar	adoblar

In Descriptione Meridionalis Arcus.

10C L.	KI
3P I	PL
4CC	C.C.C.
CL M R	L.M.R.
CRS II	Radiac
ser. Cr. ex. rr,	er. Cr. ex. Co.
Milde L.m.	feller CL

In Scarpis Catalogo.

Fig. 77. Fra Diflenta a Polo S. Legg Diflengia a Polo A.

In Tabulis Astronomicis.

A Pap. 19, ed. 47.

Pro. Latitudines ad quolibet gradum Altitudinis, Recte & Declinationis

Leg. Latitudinem ad quatuordecim gradum Africanam Redde te
Arca legem.









